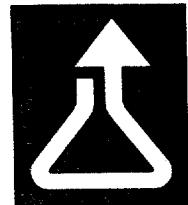


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August 12, 1992 OTS CBIC

(A)
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Office of Toxic Substances
Attn: Section 8(e) Coordinator (CAP Agreement)
Environmental Protection Agency
401 M Street, S.W.
Washington, DC 20460

8892 ϕϕ1 ϕ337
8EHP-92-12 ϕ93
INIT

Dear Sir or Madam:

Re: 8(e) CAP-0103; Data Submission

The enclosed document is submitted pursuant to the TSCA Section 8(e) Compliance Audit Program and the CAP Agreement between Rohm and Haas Company and the Environmental Protection Agency. This document does not contain confidential business information.

The following is a summary of the contents of the submission under Unit II.C.3 of the CAP Agreement:

Tested Chemical:	Benzoic acid, 2-benzoyl-1-(1,1-dimethylethyl)hydrazide
CASRN:	112225-87-3
Title of Report or Study:	Two-Week Dietary Range-Finding Study in Male Dogs on RH-5849 (Report No. 86R-121)
Reportable Effect:	Test substance produced neurotoxic signs in the dietary dog study. (Doses: 140, 700, 3500, 7000 ppm)

If additional information is required, please contact the undersigned at (215) 592-3139.
Thank you.

Sincerely,

Handwritten signature of Ronald L. Keener.

Ronald L. Keener, Ph.D.
Regulatory Affairs Director
Product Integrity Department

RLK:fs
Enclosure

RECEIVED
8-12-94

Preliminary Data Summary

RH-5849 [lot no. WS-9039; Toxicology Department (TD) No. 86-21, 98% active ingredient] was administered orally in the diet to 5 groups (4 dogs/group) of approximately 6 month old male beagle dogs (Marshall Research Animals, North Rose, NY) at dietary concentrations of 0 (control), 140, 700, 3500 and 7000 ppm of ai. Treatment of dogs in the groups receiving 140 and 700 ppm RH-5849 was continued for two weeks. Treatment of dogs in the groups receiving 3500 and 7000 ppm RH-5849 was discontinued after one day due to signs of toxicity and the subsequent deaths of three animals in these groups (two animals killed moribund at 3500 ppm on the first day of dosing; one animal died at 7000 ppm on the first day of dosing). The five surviving animals in these groups were fed untreated canine meal for a ten day recovery period. Following the recovery period, the five animals were combined to form a single treatment group (Group 6) and were administered RH-5849 at a dietary concentration of 1400 ppm, ai., for two weeks.

All dogs were observed daily for signs of ill health or reaction to treatment. Body weights and feed consumption were monitored twice weekly beginning two weeks prior to treatment. Physical examinations were performed once a week beginning two weeks prior to treatment. Two days prior to the initiation of treatment and again following approximately two weeks of dietary exposure, all animals were bled for hematology and clinical chem-

istry analyses. Following approximately two weeks of dietary exposure all surviving animals were killed, necropsied, selected organ weights recorded and tissues saved for possible future histopathologic evaluation.

Animals receiving RH-5849 at 3500 and 7000 ppm, ai., exhibited toxic signs following a single dietary exposure to the compound. Toxic signs were exhibited by all animals at 3500 and 7000 ppm approximately 1 1\2 hours after feeding and included excessive salivation, tremors, ataxia, emesis and diarrhea. In addition, two dogs receiving RH-5849 at 3500 ppm and one dog receiving the compound at 7000 ppm were observed to be prostrate with all limbs rigidly extended and convulsing. The above animal that received RH-5849 at 7000 ppm was later found dead and the two above animals receiving the compound at 3500 ppm were killed moribund the same day. Following a ten day recovery period in which no compound was administered, the surviving animals in the 3500 and 7000 ppm groups (5 dogs) were combined to form a single treatment group (Group 6). RH-5849 was administered to these animals at a dietary concentration of 1400 ppm for two weeks. Following four days of exposure to RH-5849, two animals receiving the compound at 1400 ppm exhibited toxic signs. One animal was observed in a prostrate condition, unable to right itself and moving its limbs in a paddling motion. A short time later (approximately ten minutes) this animal was found standing but ataxic and displaying a hyperextended gait. The other animal showing signs displayed tremors and seizure-like movements of the head. Upon examination, both animals were observed to have

dilated pupils that were unresponsive to light. The animal with head tremors appeared to recover from toxic effects by the next morning and showed no similar signs for the duration of the period. The other animal receiving RH-5849 at 1400 ppm continued to display toxic signs, including ataxia, lethargy, emesis, salivation and decreased feed consumption, and was killed moribund after 6 days of compound administration at 1400 ppm. Immediately prior to being killed, this animal was observed to be emaciated, salivating, prostrate, all limbs rigidly extended and experiencing tremors. Soft feces were observed regularly throughout the study and emesis and diarrhea intermittently in the remaining animals at 1400 ppm RH-5849. Signs of soft stool and mucoid feces were seen consistently throughout the study at 0 (control), 140, and 700 ppm RH-5849 and therefore considered unrelated to treatment. Diarrhea and emesis occurred on several occasions at these dose levels but were considered to be spurious occurrences. Body temperature and heart rate showed no apparent treatment related effects at any dose level throughout the study. No treatment related clinical signs were evident at dose levels of 140 or 700 ppm.

All animals receiving RH-5849 at 1400 ppm exhibited reduced feed consumption for the first few days. There was no apparent effect on the body weight of animals receiving RH-5849 at 1400 ppm. No treatment related effects on body weight or feed consumption were observed at 700 or 140 ppm.

Following approximately two weeks of dietary treatment with RH-5849, hematocrit, hemoglobin and RBC counts were decreased and

platelet counts were increased in animals receiving the compound at 1400 ppm. Red blood cell morphology was abnormal at 1400 ppm. No treatment related changes were seen at 140 or 700 ppm RH-5849.

No treatment related clinical chemistry changes were evident at 140 or 700 ppm RH-5849. Serum levels of total bilirubin (TBIL) were increased in animals fed diets at 1400 ppm RH-5849. No other treatment related changes were seen at 1400 ppm.

At scheduled necropsy, no treatment related gross changes were seen in any of the treated animals. In those animals which were either found dead or killed moribund, remarkable findings included prominent vasculature of the brain and coagulated CSF in the spinal cord in one animal (86-31714) at 3500 ppm. Other findings in the early death animals concerned the presence of food in the stomach or bronchi, the presence of vomitus or saliva on the body and a thin, dehydrated body all of which were directly related to treatment. All other findings were either scattered across all groups including control or were considered unrelated to treatment with RH-5849.

No treatment related changes in organ weights were seen at 140 ppm RH-5849. Increased liver and spleen weights and decreased testicular weights were seen in animals fed diets containing 700 and 1400 ppm. No other treatment related organ weight changes were seen at these doses.

Conclusion: RH-5849 when administered in the diet for two weeks to male dogs has a no observed effect level (NOEL) of 140 ppm (4.43 mg/kg).

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN MALE DOGS
 PROTOCOL NO. 86P-078
 REPORT NO 86R-121

TABLE 5
 CLINICAL CHEMISTRY
 INDIVIDUAL VALUES

GROUP	SEX	DOSE	ANIMAL NUMBER	DAY -3		DAY 14		DAY 26	
				A/G RATIO	COMMENTS	A/G RATIO	COMMENTS	A/G RATIO	COMMENTS
1	M	0 PPM	31726	1.7		1.3		-	
1	M	0 PPM	31727	1.3		1.3		-	
1	M	0 PPM	31728	1.1		1.2		-	
1	M	0 PPM	31740	1.4		1.3		-	
				MEAN	1.37	1.28			
				S.D.	0.25	0.05			
				N	4	4			

S.D. = STANDARD DEVIATION
 A/G = ALBUMIN/GLOBULIN
 ALL ANIMAL NUMBERS PRECEDED BY 86-

N = NUMBER

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN
 MALE DOGS
 REPORT NO. 86R-121
 PROTOCOL NO. 86P-78

Table 1
 Individual Animal Body Weights: Group 1
 0 ppm

Animal ID	Sex	Observation Periods						
		-14	-13	-12	-11	-10	-9	-8
86-31726	M	-	8234.0	-	-	8340.0	-	8492.0
86-31727	M	-	8258.0	-	-	8352.0	-	8271.0
86-31728	M	-	7520.0	-	-	7433.0	-	7602.0
86-31740	M	-	9025.0	-	-	8722.0	-	9096.0
Mean Weight	M	-	8259.3	-	-	8211.8	-	8365.3
Std. Dev.	M	-	614.7	-	-	548.6	-	616.8

- = Indicates body weight not recorded.

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN
 MALE DOGS REPORT NO. 86R-121
 PROTOCOL NO. 86P-78

Individual Animal Body Weights: Group 1
 Table 1 0 ppm
 (Grams)

Animal ID	Sex	Observation Periods										
		-1	-2	1	2	3	4	5	6	7	8	9
86-31726	M	-	8239.0	-	-	8968.0	-	-	9060.0	-	-	8977.0
86-31727	M	-	7741.0	-	-	8554.0	-	-	8475.0	-	-	8439.0
86-31728	M	-	7109.0	-	-	7547.0	-	-	7585.0	-	-	7839.0
86-31740	M	-	8321.0	-	-	8987.0	-	-	9140.0	-	-	9176.0
Mean Weight	M	-	7852.5	-	-	8514.0	-	-	8565.0	-	-	8607.8
Std. Dev.	M	-	558.0	-	-	674.9	-	-	717.4	-	-	599.6

- = Indicates body weight not recorded.

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN
 MALE DOGS
 PROTOCOL NO. 86P-78 REPORT NO. 86R-121

Individual Animal Body Weights: Group 1
 Table 1 0 ppm

Animal ID	Sex	Observation Periods							
		12	13	14	15	16	17	18	19
86-31726	M	-	-	-	-	9231.0	-	8580.0*	
86-31727	M	-	-	-	-	8629.0	-	7787.0*	
86-31728	M	-	-	-	-	7780.0	-	7285.0*	
86-31740	M	-	-	-	-	9110.0	-	8359.0*	
Mean Weight	M					8687.5		8002.8	
Std. Dev.						658.5		583.6	

* = Indicates body weight not recorded.

= Animal killed for scheduled necropsy on 6-4-86.

RH-5649: TWO-WEEK DIETARY RANGE-FINDING STUDY IN
 MALE DOGS REPORT NO. 86R-121
 PROTOCOL NO. 86P-78

Table 1 Individual Animal Body Weights: Group 2
 140 ppm (Grams)

Animal ID	Sex	Observation Periods									
		-14	-13	-12	-11	-10	-9	-8	-7	-6	-5
86-31730	M	-	8080.0	-	-	8138.0	-	-	8341.0	-	-
86-31736	M	-	9325.0	-	-	9568.0	-	-	9369.0	-	-
86-31741	M	-	8356.0	-	-	8663.0	-	-	8631.0	-	-
86-31742	M	-	7698.0	-	-	7667.0	-	-	7802.0	-	-
Mean Weight	M		8364.8			8509.0			8535.8		
Std. Dev.	M		694.7			814.8			653.1		

- * Indicates body weight not recorded.

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN
MALE DOGS REPORT NO. 86R-121
PROTOCOL NO. 86P-78

Table 1 Individual Animal Body Weights: Group 2
140 ppm (Grams)

Animal ID	Sex	Observation Periods											
		-1	-2	1	2	3	4	5	6	7	8	9	10
86-31730	M	-	7857.0	-	-	8675.0	-	-	8927.0	-	-	-	9085.0
86-31736	M	-	6886.0	-	-	9325.0	-	-	9785.0	-	-	-	9808.0
86-31741	M	-	8083.0	-	-	9091.0	-	-	9198.0	-	-	-	9324.0
86-31742	M	-	7612.0	-	-	8473.0	-	-	8638.0	-	-	-	7905.0
Mean Weight	M		8109.5			8891.0			9137.0				9030.5
Std. Dev.	M		552.2			387.2			488.8				808.4

- = Indicates body weight not recorded.

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN
MALE DOGS REPORT NO. 86R-121
PROTOCOL NO. 86P-78

Table 1 Individual Animal Body Weights: Group 2
 (Grams) 140 ppm

Animal ID	Sex	Observation Periods							Mean Weight	Std. Dev.	19
		12	13	14	15	16	17	18			
86-31730	M	-	-	-	-	9144.0	-	8254.0*			
86-31736	M	-	-	-	-	1023.0x	-	9294.0*			
86-31741	M	-	-	-	-	9242.0	-	8550.0*			
86-31742	M	-	-	-	-	9149.0	-	8082.0*			
Mean Weight	M					9178.3		8545.0			
Std. Dev.						55.2		535.4			

x = Value not included in calculation of means.

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN
 MALE DOGS REPORT NO. 86R-121
 PROTOCOL NO. 86P-78

Table 1
 Individual Animal Body Weights: Group 3
 (Grams) 700 ppm

Animal ID	Sex	Observation Periods									
		-14	-13	-12	-11	-10	-9	-8	-7	-6	-5
86-31709	M	-	8501.0	-	-	8741.0	-	-	8619.0	-	-
86-31729	M	-	8037.0	-	-	8095.0	-	-	8099.0	-	-
86-31733	M	-	8444.0	-	-	8505.0	-	-	8587.0	-	-
86-31734	M	-	9055.0	-	-	8888.0	-	-	9154.0	-	-
Mean Weight	M		8509.3			8557.3			8614.8		
Std. Dev.	M		418.4			346.2			431.1		
											8568.8
											507.1

- = Indicates body weight not recorded.

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN
 MALE DOGS REPORT NO. 86R-121
 PROTOCOL NO. 86P-78

Individual Animal Body Weights: Group 3
 700 ppm
 Table 1

Animal ID	Sex	Observation Periods												
		-1	-2	-1	1	2	3	4	5	6	7	8	9	10
86-31709	M	-	7932.0	-	-	-	8816.0	-	-	8779.0	-	-	-	9002.0
86-31729	M	-	7542.0	-	-	-	8442.0	-	-	8421.0	-	-	-	8332.0
86-31733	M	-	8102.0	-	-	-	8863.0	-	-	8810.0	-	-	-	8843.0
86-31734	M	-	8641.0	-	-	-	9343.0	-	-	9525.0	-	-	-	9862.0
Mean Weight	M	-	8054.3	-	-	-	8866.0	-	-	8883.8	-	-	-	9009.8
Std. Dev.	M	-	456.0	-	-	-	369.6	-	-	462.5	-	-	-	636.0

- = Indicates body weight not recorded.

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN
 MALE DOGS REPORT NO. 86R-121
 PROTOCOL NO. 86P-78

Individual Animal Body Weights: Group 3
 700 ppm
 Table 1 (Grams)

Animal ID	Sex	Observation Periods						
		12	13	14	15	16	17	18
86-31709	M	-	-	-	-	9066.0	-	8211.0*
86-31729	M	-	-	-	-	8445.0	-	7734.0*
86-31733	M	-	-	-	-	9119.0	-	8435.0*
86-31734	M	-	-	-	-	10146.0	-	9038.0*
Mean Weight	M					9194.0	-	8354.5
Std. Dev.						704.6	-	541.4

- = Indicates body weight not recorded.

* = Animal killed for scheduled necropsy on 6-4-86.

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN
 MALE DOGS
 REPORT NO. 86R-121
 PROTOCOL NO. 86P-78

Table 1
 Individual Animal Body Weights: Group 4
 (Grams)
 3500 ppm

Animal ID	Sex	Observation Periods									
		-14	-13	-12	-11	-10	-9	-8	-7	-6	-5
86-31705	M	-	9127.0	-	-	9266.0	-	9327.0	-	-	9403.0
86-31714	M	-	8302.0	-	-	8262.0	-	8292.0	-	-	8263.0
86-31732	M	-	8930.0	-	-	9031.0	-	9140.0	-	-	9234.0
86-31737	M	-	8501.0	-	-	8623.0	-	8681.0	-	-	8864.0
Mean Weight	M	-	8715.0	-	-	8795.5	-	8860.0	-	-	8941.0
Std. Dev.	M	-	379.5	-	-	443.9	-	465.9	-	-	504.9

-- Indicates body weight not recorded.

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN
 MALE DOGS
 PROTOCOL NO. 86P-78 REPORT NO. 86R-121

Individual Animal Body Weights: Group 4
 (Grams) 3500 ppm

Animal ID	Sex	Observation Periods										
		-1	1	2	3	4	5	6	7	8	9	10
86-31705	M	-	8857.0	-	-	9439.0*	-	-	9575.0*	-	-	9440.0*
86-31714	M	-	7805.0	-	-	-	*	-	-	-	-	8940.0*
86-31732	M	-	8662.0	-	-	9432.0*	-	-	9541.0*	-	-	-
86-31737	M	-	8306.0	-	-	-	*	-	-	-	-	-
Mean Weight	M	-	8407.5	-	-	9435.5	-	-	9558.0	-	-	9190.0
Std. Dev.	M	-	461.9	-	-	4.9	-	-	24.0	-	-	353.6

* = Animal killed moribund on 5-16-68 (Day -1 of study).

= Animal received treated diet on the first day of this observation

- = period and untreated diet for the remainder.

- = Indicates body weight not recorded.

+ = Recovery period - no compound administered.

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN
 MALE DOGS
 PROTOCOL NO. 86P-78 REPORT NO. 86R-121

Table 1
 Individual Animal Body Weights: Group 5
 (Grams)

Animal ID	Sex	Observation Periods									
		-14	-13	-12	-11	-10	-9	-8	-7	-6	-5
86-31731	M	-	8207.0	-	-	8366.0	-	-	8437.0	-	-
86-31735	M	-	7410.0	-	-	7555.0	-	-	7962.0	-	-
86-31738	M	-	8596.0	-	-	8421.0	-	-	8677.0	-	-
86-31743	M	-	9002.0	-	-	8923.0	-	-	9081.0	-	-
Mean Weight	M	-	8303.8	-	-	8341.3	-	-	8539.3	-	-
Std. Dev.			678.5			602.8			467.7		

- = Indicates body weight not recorded.

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN
 MALE DOGS REPORT NO. 86R-121
 PROTOCOL NO. 86P-78

Individual Animal Body Weights: Group 5
 7000 ppm
 Table 1 (Grams)

Animal ID	Sex	Observation Periods										
		-2	-1	1	2	3	4	5	6	7	8	9
86-31731	M	-	7780.0	-	-	-	-	-	-	8307.0*	-	-
86-31735	M	-	7741.0	-	-	-	7938.0*	-	-	9105.0*	-	-
86-31738	M	-	7945.0	-	-	-	8793.0#	-	-	-	-	8322.0*
86-31743	M	-	9395.0	-	-	-	8963.0#	-	-	9082.0*	-	-
Mean Weight	M	-	8215.3	-	-	-	8564.7	-	-	8831.3	-	-
Std. Dev.	M	-	791.5	-	-	-	549.3	-	-	454.2	-	-
												189.1

* = Animal found dead on 5-16-86 (Day -1 of study).

= Animal received treated diet on the first day of this observation period and untreated diet for the remainder.

* = Recovery period - no compound administered.

- = Indicates body weight not recorded.

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN
 MALE DOGS REPORT NO. BGR-121
 PROTOCOL NO. 86P-78

Table 1 Individual Animal Body Weights: Group 6*
 (Grams) 1400 ppm

Animal ID	Sex	Observation Periods									21
		12	13	14	15	16	17	18	19	20	
86-31705\$	M	-	-	-	-	-	9221.0	-	-	-	9374.0
86-31732\$	M	-	-	-	-	-	9019.0	-	-	-	8844.0
86-31735\$	M	-	-	-	-	-	8547.0	-	-	-	8531.0
86-31738\$	M	-	-	-	-	-	8664.0	-	-	-	8972.0
86-31743\$	M	-	-	-	-	-	9120.0	-	-	-	9109.0
Mean Weight	M						142.8				374.8
Std. Dev.	M										

* = Group 6 formed by combining the survivors of Groups 4 and 5.

\$ = Animal received RH-5849 in the diet at 1400 ppm beginning on Day 10 throughout the remainder of the study.

● = Animal killed moribund on 6-2-86 (Day 16 of the study).

◎ = Animal killed for scheduled necropsy on 6-12-86.

- = Indicates body weight not recorded.

RH-5849 : TWO-WEEK DIETARY RANGE-FINDING STUDY IN
 MALE DOGS
 PROTOCOL NO. 86P-78 REPORT NO. 86R-121

Individual Animal Body Weights: Group 6*
 (Grams) 1400 ppm

Animal ID	Sex	Observation Periods				
		22	23	24	25	26
86-31705\$	M	-	-	-	-	9012.06
86-31732\$	M	-	-	-	-	8360.06
86-31735\$	M	-	-	-	-	8524.06
86-31738\$	M	-	-	-	-	8234.06
86-31743\$	M	-	-	-	-	8532.5
Mean Weight	M					
Std. Dev.	M					341.0

* = Group 6 formed by combining the survivors of Groups 4 and 5.

\$ = Animal received RH-5849 in the diet at 1400 ppm beginning on Day 10 throughout the remainder of the study.

© = Animal killed moribund on 6-2-86 (Day 16 of the study).

6 = Animal killed for scheduled necropsy on 6-12-86.

- = Indicates body weight not recorded.

RH-5B49: TWO-WEEK DIETARY RANGE-FINDING STUDY IN
 PROTOCOL NO. 86P-78 MALE DOGS REPORT NO. 86R-121

Table 2 Individual Animal Feed Consumption, Grams
 Group 1 0 ppm

Animal ID	Observation Periods											
	-14	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3
86-31726	-	-	-	1200.0	-	-	900.0	-	-	-	1200.0	-
86-31727	-	-	-	1200.0	-	-	900.0	-	-	-	1200.0	-
86-31728	-	-	-	1200.0	-	-	900.0	-	-	-	1200.0	-
86-31740	-	-	-	1200.0	-	-	900.0	-	-	-	1200.0	-
Mean Feed				1200.0			900.0				1200.0	
Std. Dev.				0.0			0.0				0.0	

* Feed consumption not recorded.

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN
 MALE DOGS
 PROTOCOL NO. 86P-78 REPORT NO. 86R-121

Table 2 Individual Animal Feed Consumption, Grams
 Group 1 0 ppm

Animal ID	Observation Periods											
	-1	1	2	3	4	5	6	7	8	9	10	11
86-31726	900.0	-	-	1200.0	-	-	900.0	-	-	-	1200.0	-
86-31727	900.0	-	-	1200.0	-	-	900.0	-	-	-	1200.0	-
86-31728	900.0	-	-	1200.0	-	-	900.0	-	-	-	1200.0	-
86-31740	900.0	-	-	1200.0	-	-	900.0	-	-	-	1200.0	-
Mean Feed	900.0			1200.0			900.0				1200.0	
Std. Dev.	0.0			0.0			0.0				0.0	

- = Feed consumption not recorded.

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN
MALE DOGS
PROTOCOL NO. 86P-78
REPORT NO. 86R-121

Table 2 Individual Animal Feed Consumption, Grams
Group 1 0 ppm

Animal ID	Observation Periods	13	14	15	16	17	18	19
86-31726	-	900.0	-	-	-	-	1200.0	•
86-31727	-	900.0	-	-	-	-	1200.0	•
86-31728	-	900.0	-	-	-	-	1200.0	•
86-31740	-	900.0	-	-	-	-	1200.0	•
Mean Feed		900.0					1200.0	
Std. Dev.		0.0					0.0	

- = Feed consumption not recorded.

• = Animal killed for scheduled necropsy on 6-4-86.

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN
 MALE DOGS
 PROTOCOL NO. 86P-78
 REPORT NO. BGR-121

Table 2
 Individual Animal Feed Consumption, Grams
 Group 2 140 ppm

Animal ID	Observation Periods											
	-14	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3
86-31730	-	-	-	1200.0	-	900.0	-	-	-	-	1200.0	-
86-31736	-	-	-	1200.0	-	686.0	-	-	-	-	1200.0	-
86-31741	-	-	-	1200.0	-	900.0	-	-	-	-	1200.0	-
86-31742	-	-	-	1034.0	-	808.0	-	-	-	-	1163.0	-
Mean Feed				1158.4		823.5					1190.7	
Std. Dev.				83.0		101.4					18.5	

- = Feed consumption not recorded.

RH-5849 : TWO-WEEK DIETARY RANGE-FINDING STUDY IN
PROTOCOL NO. 86P-78 MALE DOGS REPORT NO. 86R-121

Table 2 Individual Animal Feed Consumption, Grams
Group 2 140 ppm

Animal ID	Observation Periods											
	-1	1	2	3	4	5	6	7	8	9	10	11
86-311730	900.0	-	-	-	1200.0	-	-	-	-	-	1200.0	-
86-311736	900.0	-	-	-	969.0	-	-	-	-	-	1200.0	-
86-311741	900.0	-	-	-	1200.0	-	-	-	-	-	1200.0	-
86-311742	900.0	-	-	-	1165.0	-	-	-	-	-	1200.0	-
Mean Feed	900.0	-	-	-	1133.5	-	-	-	-	-	1200.0	-
Std. Dev.	0.0	-	-	-	110.9	-	-	-	-	-	1200.0	0.0

- **Feed consumption not recorded.**

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN
MALE DOGS REPORT NO. 86R-121
PROTOCOL NO. 86P-78

Individual Animal Feed Consumption. Grams
Table 2 Group 2 140 ppm

Animal ID	Observation Periods							
	13	14	15	16	17	18	19	
86-31730	-	778.0	-	-	-	1069.0	•	
86-31736	-	900.0	-	-	-	1200.0	•	
86-31741	-	900.0	-	-	-	1200.0	•	
86-31742	-	340.0	-	-	-	1152.0	•	
Mean Feed		729.5				1155.3		
Std. Dev.		265.9				61.8		

- = Feed consumption not recorded.

• = Animal killed for scheduled necropsy on 6-4-86.

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN
 MALE DOGS
 REPORT NO. 86R-121

Protocol No. 86P-78
 Individual Animal Feed Consumption, Grams
 Table 2 Group 3 700 ppm

Animal ID	-10	-11	-12	-13	-14	Observation Periods
86-31709	-	-	-	1200.0	-	900.0
86-31729	-	-	-	1200.0	-	900.0
86-31733	-	-	-	1200.0	-	900.0
86-31734	-	-	-	1200.0	-	900.0
Mean Feed				1200.0		900.0
Std. Dev.				0.0		0.0

- = Feed consumption not recorded.

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN
 MALE DOGS REPORT NO. 86R-121
 PROTOCOL NO. 86P-78

Table 2 Individual Animal Feed Consumption, Grams
 Group 3 700 ppm

Animal ID	Observation Periods												
	-1	1	2	3	4	5	6	7	8	9	10	11	12
86-31709	900.0	-	-	-	1191.0	-	-	900.0	-	-	-	1200.0	-
86-31729	900.0	-	-	-	1114.0	-	-	900.0	-	-	-	1200.0	-
86-31733	900.0	-	-	-	1200.0	-	-	900.0	-	-	-	1200.0	-
86-31734	900.0	-	-	-	1200.0	-	-	900.0	-	-	-	1200.0	-
Mean Feed	900.0	-	-	-	1176.2	-	-	900.0	-	-	-	1200.0	-
Std. Dev.	0.0	-	-	-	41.7	-	-	0.0	-	-	-	0.0	-

- = Feed consumption not recorded.

RH-5849 : TWO-WEEK DIETARY RANGE-FINDING STUDY IN
 MALE DOGS
 REPORT NO. 86R-121
 PROTOCOL NO. 86P-78

Individual Animal Feed Consumption. Grams
 Group 3 700 ppm

Table 2

Animal ID	Observation Periods				
	13	14	15	16	17
86-31709	-	900.0	-	-	1163.0
86-31729	-	900.0	-	-	1200.0
86-31733	-	900.0	-	-	1200.0
86-31734	-	900.0	-	-	1200.0
Mean Feed		900.0			1190.8
Std. Dev.		0.0			18.5

- = Feed consumption not recorded.

• = Animal killed for scheduled necropsy on 6-4-86.

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN
 MALE DOGS REPORT NO. 86R-121
 PROTOCOL NO. 86P-78

Table 2
 Individual Animal Feed Consumption, Grams
 Group 4
 3500 ppm

Animal ID	-14	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2
86-311705	-	-	-	1200.0	-	-	900.0	-	-	-	1200.0	-	-
86-311714	-	-	-	1200.0	-	-	900.0	-	-	-	1200.0	-	-
86-311732	-	-	-	1200.0	-	-	885.0	-	-	-	1200.0	-	-
86-311737	-	-	-	1200.0	-	-	900.0	-	-	-	1200.0	-	-
Mean Feed				1200.0			896.2				1200.0		
Std. Dev.				0.0			7.5				0.0		

- = Feed consumption not recorded.

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN
 MALE DOGS REPORT NO. 86R-121

PROTOCOL NO. 86P-78
 Individual Animal Feed Consumption, Grams
 Group 4 3500 ppm

Animal ID	Observation Periods												
	-1	1	2	3	4	5	6	7	8	9	10	11	12
86-31705	900.0	-	-	-	1179.0*	-	-	900.0*	-	-	-	1200.0*	-
86-31714	900.0	-	-	-	-	975.0#	-	-	-	-	-	1200.0*	-
86-31732	900.0	-	-	-	-	-	-	-	-	-	-	1200.0*	-
86-31737	900.0	-	-	-	-	1077.0#	-	-	-	-	-	1200.0*	-
Mean Feed	900.0	-	-	-	-	1077.0	-	-	-	-	-	1200.0*	-
Std. Dev.	0.0	-	-	-	-	144.2	-	-	-	-	-	0.0	-

* = Animal killed moribund on 5-16-86 (Day -1 of study).

= Animal received treated diet on the first day of this observation period and untreated diet during the remainder.

= Recovery period - no compound administered.

- = Feed consumption not recorded.

RH-5849 : TWO-WEEK DIETARY RANGE-FINDING STUDY IN
 MALE DOGS
 REPORT NO. B6R-121
 PROTOCOL NO. 86P-78

Table 2
 Individual Animal Feed Consumption, Grams
 Group 5 7000 ppm

Animal ID	Observation Periods											
	-14	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3
86-31731	-	-	-	1200.0	-	-	900.0	-	-	1200.0	-	-
86-31735	-	-	-	957.0	-	-	798.0	-	-	1200.0	-	-
86-31738	-	-	-	1200.0	-	-	812.0	-	-	1126.0	-	-
86-31743	-	-	-	1200.0	-	-	900.0	-	-	1200.0	-	-
Mean Feed				1139.2			852.5			1181.4		
Std. Dev.				121.5			55.1			37.0		

- = Feed consumption not recorded.

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN
 MALE DOGS
 PROTOCOL NO. 86P-78 REPORT NO. 86R-121

Individual Animal Feed Consumption, Grams
 Group 5 7000 ppm
 Table 2

Animal ID	Observation Period	1	2	3	4	5	6	7	8	9	10	11	12
86-31731	900.0	-	-	-	-	696.0*	-	-	900.0*	-	-	1200.0*	-
86-31735	900.0	-	-	-	-	941.0*	-	-	900.0*	-	-	1200.0*	-
86-31738	859.0	-	-	-	-	996.0*	-	-	900.0*	-	-	1200.0*	-
86-31743	900.0	-	-	-	-	877.7	-	-	900.0*	-	-	1200.0*	-
Mean Feed	889.7								900.0			1200.0	
Std. Dev.	20.5								0.0			0.0	

* = Animal killed moribund on 5-16-86 (Day -1 of the study).

= Animal received treated diet on the first day of this observation period and untreated diet for the remainder.

- = Recovery period - no compound administered.

-- = Feed consumption not recorded.

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN
 MALE DOGS
 PROTOCOL NO. 86P-7B REPORT NO. 86R-121
 Individual Animal Feed Consumption, Grams
 Group 6* 1400 ppm

Table 2
 Observation Periods

Animal ID	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
86-31705 \$	-	260.0	-	-	-	1068.0	-	-	900.0	-	-	-	1200.0	-	6
86-31732 \$	-	648.0	-	-	-	1063.0	-	-	691.0	-	-	-	907.0	-	6
86-31735 \$	-	738.0	-	-	-	1200.0	-	-	900.0	-	-	-	1200.0	-	6
86-31738 \$	-	492.0	-	-	-	1070.0	-	-	885.0	-	-	-	1153.0	-	6
86-31743 \$	-	328.0	-	-	-	●	-	-	●	-	-	-	●	-	6
Mean Feed	493.2	493.2	493.2	493.2	493.2	493.2	493.2	493.2	493.2	493.2	493.2	493.2	493.2	493.2	493.2
Std. Dev.	203.4	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6

● = Animal found dead on 6-2-86 (Day 16 of the study).

\$ = Animal received RH-5849 in the diet at 1400 ppm beginning Day 10 throughout the remainder of the study.

* = Group 6 formed by combining the survivors of Groups 4 and 5.

- = Feed consumption not recorded.

6 = Animal killed for scheduled necropsy on 6-12-86.

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN
 MALE DOGS REPORT NO. 86R-121
 PROTOCOL NO. 86P-78 INDIVIDUAL COMPOUND INTAKE
 TABLE 3 MALES
 MG/KG BW.DAY

GROUP - 2	DOSE - 140 PPM	-WEEKS-		
ANIMAL NO.		2	3*	
31730	4.70	4.35	4.53	
31736	3.59	4.28	4.52	
31741	4.57	4.50	4.91	
31742	4.70	3.90	5.03	
MEAN	4.39	4.26	4.78	
S.D.	0.54	0.26	0.24	
N	4	4	4	

S.D. - STANDARD DEVIATION

V - VERIFIED

ALL ANIMAL NUMBERS PRECEDED BY 86- * - 4 DAYS OF TREATMENT

N - NUMBER

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN
 MALE DOGS
 REPORT NO. 86R-121
 PROTOCOL NO. 86P-78
 INDIVIDUAL COMPOUND INTAKE
 TABLE 3 MALES
 MG/KG BW DAY

GROUP - 3	DOSE - 700 PPM	-WEEKS-		
ANIMAL NO.		1	2	3*
31709	23.82	23.33	24.79	
31729	23.92	25.20	27.15	
31733	23.84	23.75	24.90	
31734	22.05	21.29	23.24	
MEAN	23.41	23.39	25.06	
S.D.	0.91	1.61	1.60	
N	4	4	4	

S.D. - STANDARD DEVIATION

V - VERIFIED

N - NUMBER

ALL ANIMAL NUMBERS PRECEDED BY 86-

* - 4 DAYS OF TREATMENT

RH-5849: TWO-WEEK DIETARY RANGE FINDING STUDY IN
 MALE DOGS REPORT NO. 86R-121
 NO. 86P-78 INDIVIDUAL COMPOUND INTAKE
 PROTOCOL INDIVIDUAL COMPOUND INTAKE
 MALES
 TABLE 3

GROUP - 4	DOSE - 3500 PPM	ANIMAL NO.	1*	MEAN S.D. N
		31705	110.25	92.43
		31714	134.53	36.00
		31732	63.84	
		31737	61.10	

S.D. - STANDARD DEVIATION	N - NUMBER
V - VERIFIED	*
ALL ANIMAL NUMBERS PRECEDED BY 86-*	
* - 1 DAY OF TREATMENT	

RH-5649: TWO-WEEK DIETARY RANGE-FINDING STUDY IN
 MALE DOGS REPORT NO. 86R-121
 PROTOCOL NO. 86P-78 INDIVIDUAL COMPOUND INTAKE
 MALES
 MG/KG BW.DAY

GROUP - 5	DOSE - 7000 PPM	ANIMAL NO.	MEAN	S.D.
		1*		
		311731	174.55	110.44
		311735	94.04	43.29
		311738	79.30	5.29
		311743	93.88	4

S.D. - STANDARD DEVIATION
V - VERIFIED

ALL ANIMAL NUMBERS PRECEDED BY 86-1 - 1 DAY OF TREATMENT

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN
 MALE DOGS REPORT NO. 86R-121
 PROTOCOL NO. 86P-78
 INDIVIDUAL COMPOUND INTAKE
 TABLE 3 MALES
 MG/KG BW.DAY

GROUP - 6	DOSE - 1400 PPM	-WEEKS-		
ANIMAL NO.	1	2	3*	
31705	35.31	44.80	46.60	
31732	36.86	36.25	44.88	
31735	45.35	49.23	49.27	
31738	36.06	45.43	51.01	
31743				
MEAN	38.40	43.93	47.94	
S.D.	4.68	5.48	2.73	
N	4	10	4	

S.D. - STANDARD DEVIATION

V - VERIFIED

ALL ANIMAL NUMBERS PRECEDED BY 86- * - 1 DAY OF TREATMENT

N - NUMBER

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN MALE DOGS
 REPORT NO. 86R-121
 PROTOCOL NO. 86P-78

TABLE 4
 HEMATOLOGY
 INDIVIDUAL VALUES

GROUP	SEX	DOSE	ANIMAL NUMBER	DAY-3		DAY 14		DAY 26	
				WBC 10E3/CMM	COMMENTS	WBC 10E3/CMM	COMMENTS	WBC 10E3/CMM	COMMENTS
1	M	0 PPM	31726	14.7	NM	13.3	NM	-	-
1	M	0 PPM	31727	10.7	NM	10.7	NM	-	-
1	M	0 PPM	31728	10.8	NM	10.3	NM	-	-
1	M	0 PPM	31740	12.7	NM	11.5	NM	-	-
				MEAN	12.22	11.45			
				S.D.	1.89	1.33			
				N	4	4			

S.D. = STANDARD DEVIATION
 WBC = WHITE BLOOD CELL (COUNT)
 ALL ANIMAL NUMBERS PRECEDED BY 86-

N=NUMBER OF ANIMALS
 10E3/CMM = 1000 PER CUBIC MILLIMETER

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN MALE DOGS
 REPORT NO. 86R-121
 PROTOCOL NO. 86P-78

TABLE 4
 HEMATOLOGY
 INDIVIDUAL VALUES

GROUP	SEX	DOSE	ANIMAL NUMBER	DAY-3 WBC 10E3/CMM COMMENTS	DAY 14 WBC 10E3/CMM COMMENTS	DAY 26 WBC 10E3/CMM COMMENTS
2	M	140 PPM	31730	9.6 PCMM	9.1	-
2	M	140 PPM	31736	13.4 NM	13.8	-
2	M	140 PPM	31741	12.2 NM	6.2	-
2	M	140 PPM	31742	12.0 NM	10.4	-
				MEAN	11.80	9.87
				S.D.	1.59	3.15
				N	4	4

N=NUMBER OF ANIMALS
 10E3/CMM=1000 PER CUBIC MILLIMETER
 S.D.= STANDARD DEVIATION
 WBC=WHITE BLOOD CELL (COUNT)
 ALL ANIMAL NUMBERS PRECEDED BY 86-
 PC=PLATELET CONFIRMED

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN MALE DOGS
 PROTOCOL NO. 86P-78
 REPORT NO. 86R-121

TABLE 4
 HEMATOLOGY
 INDIVIDUAL VALUES

GROUP	SEX	DOSE	ANIMAL NUMBER	DAY 3			DAY 14			DAY 26		
				WBC	10E3/CMM	COMMENTS	WBC	10E3/CMM	COMMENTS	WBC	10E3/CMM	COMMENTS
3	M	700 PPM	31709	7.1	NM		8.9	-		-		
3	M	700 PPM	31729	8.9	NM		11.3	-		-		
3	M	700 PPM	31733	18.7	WC/NM		16.6V	-		-		
3	M	700 PPM	31734	10.4	NM		9.1	-		-		
				MEAN	11.28		11.47					
				S.D.	5.13		3.59					
				N	4		4					

S.D. = STANDARD DEVIATION
 WBC=WHITE BLOOD CELL (COUNT)
 ALL ANIMAL NUMBERS PRECEDED BY 86-
 WC=WBC CONFIRMED

N=NUMBER OF ANIMALS
 10E3/CMM= 1000 PER CUBIC MILLIMETER
 V=VERIFIED AND REPEATED

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN MALE DOGS
 PROTOCOL NO. 86P-78
 REPORT NO. 86R-121

TABLE 4
 HEMATOLOGY
 INDIVIDUAL VALUES

GROUP	SEX	DOSE	ANIMAL NUMBER	DAY-3			DAY 14			DAY 26		
				WBC 10E3/CMM	10E3/CMM COMMENTS	WBC 10E3/CMM COMMENTS	WBC 10E3/CMM COMMENTS	WBC 10E3/CMM COMMENTS	WBC 10E3/CMM COMMENTS	WBC 10E3/CMM COMMENTS	WBC 10E3/CMM COMMENTS	
6	M	1400 PPM	31705	15.3	VWC	N	-	-	-	17.1	VJ	102WC
6	M	1400 PPM	31732	12.3	PCNM	-	-	-	-	9.7	J2D1	
6	M	1400 PPM	31735	11.0	NM	-	-	-	-	12.1	J1	
6	M	1400 PPM	31738	8.2	PCNM	-	-	-	-	12.9	J2D1	
				MEAN	11.70		12.95			12.95		
				S.D.	2.95		3.08			3.08		
				N	4		4			4		

S.D.= STANDARD DEVIATION
 WBC=WHITE BLOOD CELL (COUNT)
 ALL ANIMAL NUMBERS PRECEDED BY 86-

V=VERIFIED AND REPEATED

D2=SOME TARGET CELLS

J2=Moderate Anisocytosis

WC=WBC CONFIRMED

J1=Slight Anisocytosis

PC=PLATELET CONFIRMED

D1=Few Target Cells

N=NUMBER OF ANIMALS
 10E3/CMM=1000 PER CUBIC MILLIMETER

RH-5049: TWO-WEEK DIETARY RANGE-FINDING STUDY IN MALE DOGS
 PROTOCOL NO. 86P-78
 REPORT NO. 86R-121

TABLE 4
 HEMATOLOGY
 INDIVIDUAL VALUES

GROUP	SEX	DOSE	ANIMAL NUMBER	DAY -3			DAY 14			DAY 26		
				RBC	10E6/CMM	COMMENTS	RBC	10E6/CMM	COMMENTS	RBC	10E6/CMM	COMMENTS
1	M	0 PPM	31726	6.4	NM		6.3	NM		6.1	NM	
1	M	0 PPM	31727	6.5	NM		6.1	NM		6.0	NM	
1	M	0 PPM	31728	5.8	NM		6.0	NM		6.7	NM	
1	M	0 PPM	31740	6.6	NM		6.6	NM				
				MEAN	6.360		6.317					
				S.D.	0.338		0.291					
				N	4		4					

S.D. = STANDARD DEVIATION
 RBC=RED BLOOD CELL (COUNT)
 ALL ANIMAL NUMBERS PRECEDED BY 86
 NM=NORMAL RBC MORPHOLOGY

N=NUMBER OF ANIMALS
 10E6/CMM=1,000,000 PER CUBIC MILLIMETER

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN MALE DOGS
 PROTOCOL NO. 86P-78
 REPORT NO. 86R-121

TABLE 4
 HEMATOLOGY
 INDIVIDUAL VALUES

GROUP	SEX	DOSE	ANIMAL NUMBER	DAY-3		DAY 14		DAY 26	
				RBC 10E6/CMM	COMMENTS	RBC 10E6/CMM	COMMENTS	RBC 10E6/CMM	COMMENTS
2	M	140 PPM	31730	6.2	PCNM	5.9	-	-	-
2	M	140 PPM	31736	7.3	NM	6.4	-	-	-
2	M	140 PPM	31741	6.5	NM	6.1	-	-	-
2	M	140 PPM	31742	6.3	NM	5.3	-	-	-
				MEAN	6.620	5.972			
				S.D.	0.522	0.459			
				N	4	4			

S.D.= STANDARD DEVIATION
 RBC=RED BLOOD CELL (COUNT)
 ALL ANIMAL NUMBERS PRECEDED BY 86-
 PC=PLATELET CONFIRMED
 NM=NORMAL RBC MORPHOLOGY
 N=NUMBER OF ANIMALS
 10E6/CMM=1,000,000 PER CUBIC MILLIMETER

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN MALE DOGS
 PROTOCOL NO. 86P-78
 REPORT NO. 86R-121

TABLE 4
 HEMATOLOGY
 INDIVIDUAL VALUES

GROUP	SEX	DOSE	ANIMAL NUMBER	DAY-3		DAY 14		DAY 26	
				RBC 10E6/CMM	COMMENTS	RBC 10E6/CMM	COMMENTS	RBC 10E6/CMM	COMMENTS
3	M	700 PPM	31709	6.7	NM	6.1	-	-	-
3	M	700 PPM	31729	6.8	NM	6.2	-	-	-
3	M	700 PPM	31733	6.4	WCNM	5.3	-	-	-
3	M	700 PPM	31734	6.4	NM	5.7	-	-	-
				MEAN	6.632	5.895			
				S.D.	0.212	0.390			
				N	4	4			

S.D. = STANDARD DEVIATION
 RBC=RED BLOOD CELL (COUNT)
 ALL ANIMAL NUMBERS PRECEDED BY 86-
 NM=NORMAL RBC MORPHOLOGY

N=NUMBER OF ANIMALS
 10E6/CMM=1,000,000 PER CUBIC MILLIMETER
 WC=WBC CONFIRMED

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN MALE DOGS
 PROTOCOL NO. 86P-78
 REPORT NO. 86R-121

TABLE 4
 HEMATOLOGY
 INDIVIDUAL VALUES

GROUP	SEX	DOSE	ANIMAL NUMBER	DAY-3		DAY 14		DAY 26	
				RBC	10E6/CMM COMMENTS	RBC	10E6/CMM COMMENTS	RBC	10E6/CMM COMMENTS
6	M	1400 PPM	31705	6.3	WCNM	-	-	5.3VJ1D2WC	
6	M	1400 PPM	31732	7.9	PCNM	-	-	5.7VJ2D1	
6	M	1400 PPM	31735	5.9	NM	-	-	4.4VJ1	
6	M	1400 PPM	31738	6.2	PCNM	-	-	5.OVJ2D1	
				MEAN	6.627			5.140	
				S.D.	0.914			0.533	
				N	4			4	

S.D. = STANDARD DEVIATION
 RBC = RED BLOOD CELL (COUNT)
 ALL ANIMAL NUMBERS PRECEDED BY 86-
 V=VERIFIED AND REPEATED
 NM=NORMAL RBC MORPHOLOGY
 D2=SOME TARGET CELLS
 J2=MODERATE ANISOCYTOSIS

N=NUMBER OF ANIMALS
 10E6/CMM=1,000,000 PER CUBIC MILLIMETER

WC=WBC CONFIRMED
 J1=SLIGHT ANISOCYTOSIS
 PC=PLATELET CONFIRMED
 D1=FEW TARGET CELLS

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN MALE DOGS
 PROTOCOL NO. 86P-78
 REPORT NO. 86R-121

TABLE 4
 HEMATOLOGY
 INDIVIDUAL VALUES

GROUP	SEX	DOSE	ANIMAL NUMBER	DAY-3		DAY 14		DAY 26	
				HCT %	COMMENTS	HCT %	COMMENTS	HCT %	COMMENTS
1	M	0 PPM	31726	47.3	NM	47.5	NM	-	-
1	M	0 PPM	31727	48.8	NM	45.8	NM	-	-
1	M	0 PPM	31728	45.2	NM	47.0	NM	-	-
1	M	0 PPM	31740	48.7	NM	49.6	NM	-	-
				MEAN	47.50	47.47			
				S.D.	1.68	1.59			
				N	4	4			

S.D. = STANDARD DEVIATION
 HCT = HEMATOCRIT
 ALL ANIMAL NUMBERS PRECEDED BY 86-
 NM = NORMAL RBC MORPHOLOGY

N=NUMBER OF ANIMALS
 %=PERCENT

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN MALE DOGS
 PROTOCOL NO. 86P-78 REPORT NO. 86R-121

TABLE 4 HEMATOLOGY INDIVIDUAL VALUES

GROUP	SEX	DOSE	ANIMAL NUMBER	DAY-3		DAY 14		DAY 26	
				HCT %	COMMENTS	HCT %	COMMENTS	HCT %	COMMENTS
2	M	140 PPM	311730	47.4	PCNM	46.0	-	-	-
2	M	140 PPM	311736	54.0	NM	47.4	-	-	-
2	M	140 PPM	311741	49.4	NM	46.4	-	-	-
2	M	140 PPM	311742	48.0	NM	40.7	-	-	-
				MEAN	49.70	45.12			
				S.D.	2.99	3.01			
				N	4	4			

S.D.= STANDARD DEVIATION
 HCT=HEMATOCRIT
 ALL ANIMAL NUMBERS PRECEDED BY 86-
 PC=PLATELET CONFIRMED

N=NUMBER OF ANIMALS
 %=PERCENT
 NM=NORMAL RBC MORPHOLOGY

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN MALE DOGS
 PROTOCOL NO. 86P-78 REPORT NO. 86R-121

TABLE 4 HEMATOLOGY INDIVIDUAL VALUES

GROUP	SEX	DOSE	ANIMAL NUMBER	DAY-3		DAY 14		DAY 26	
				HCT	%	HCT	%	HCT	%
				COMMENTS		COMMENTS		COMMENTS	
3	M	700 PPM	311709	49.6	NM	46.0	-	-	-
3	M	700 PPM	311729	51.2	NM	47.3	-	-	-
3	M	700 PPM	311733	48.1	WCNM	41.5	-	-	-
3	M	700 PPM	311734	49.7	NM	45.5	-	-	-
				MEAN	49.65	45.07			
				S.D.	1.27	2.50			
				N	4	4			

S.D. = STANDARD DEVIATION

HCT=HEMATOCRIT

ALL ANIMAL NUMBERS PRECEDED BY 86-

NM=NORMAL RBC MORPHOLOGY

N=NUMBER OF ANIMALS

X=PERCENT

WC=WBC CONFIRMED

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN MALE DOGS
 PROTOCOL NO. 86P-78
 REPORT NO. 86R-121

TABLE 4
 HEMATOLOGY
 INDIVIDUAL VALUES

GROUP	SEX	DOSE	ANIMAL NUMBER	DAY-3		DAY 14		DAY 26	
				HCT	%	HCT	%	HCT	%
6	M	1400 PPM	31705	47.0	WCNM	-	-	39.8	VJJD2WC
6	M	1400 PPM	31732	55.7	PCNM	-	-	40.3	VJJD1
6	M	1400 PPM	31735	42.9	NM	-	-	32.8	VJ1
6	M	1400 PPM	31738	45.0	PCNM	-	-	37.6	VJJD1
				MEAN	47.65			37.62	
				S.D.	5.62			3.42	
				N	4			4	

S.D. = STANDARD DEVIATION

HCT=HEMATOCRIT

ALL ANIMAL NUMBERS PRECEDED BY 86-

V=VERIFIED AND REPEATED

NM=NORMAL RBC MORPHOLOGY

D2=SOME TARGET CELLS

J2=MODERATE ANISOCYTOSIS

N=NUMBER OF ANIMALS
 %=PERCENT

WC=WBC CONFIRMED

J=SLIGHT ANISOCYTOSIS

PC=PLATELET CONFIRMED

D=FEW TARGET CELLS

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN MALE DOGS
 PROTOCOL NO. 86P-78
 REPORT NO. BGR-121

TABLE 4
 HEMATOLOGY
 INDIVIDUAL VALUES

GROUP	SEX	DOSE	ANIMAL NUMBER	DAY-3		DAY 14		DAY 26	
				HGB G/100ML	COMMENTS	HGB G/100ML	COMMENTS	HGB G/100ML	COMMENTS
1	M	0 PPM	311726	13.9	NM	13.7	NM	-	-
1	M	0 PPM	311727	13.9	NM	13.3	NM	-	-
1	M	0 PPM	311728	13.3	NM	14.2	NM	-	-
1	M	0 PPM	311740	14.1	NM	14.7	NM	-	-
				MEAN	13.80	13.97			
				S.D.	0.35	0.61			
				N	4	4			

S.D. = STANDARD DEVIATION
 HGB = HEMOGLOBIN
 ALL ANIMAL NUMBERS PRECEDED BY 86-
 NM = NORMAL RBC MORPHOLOGY

N=NUMBER OF ANIMALS
 G/100ML=GRAMS PER 100 MILLILITERS

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN MALE DOGS
 PROTOCOL NO. 86P-78
 REPORT NO. 86R-121

TABLE 4
 HEMATOLOGY
 INDIVIDUAL VALUES

GROUP	SEX	DOSE	ANIMAL NUMBER	DAY-3 HGB G/100ML COMMENTS	DAY 14 HGB G/100ML COMMENTS	DAY 26 HGB G/100ML COMMENTS
2	M	140 PPM	31730	13.5 PCNM	13.7	-
2	M	140 PPM	31736	15.4 NM	13.9	-
2	M	140 PPM	31741	14.1 NM	13.5	-
2	M	140 PPM	31742	13.9 NM	12.5	-
				MEAN S.D. N	14.22 0.82 4	13.40 0.62 4

S.D.= STANDARD DEVIATION
 HGB=HEMOGLOBIN
 ALL ANIMAL NUMBERS PRECEDED BY 86-
 PC=PLATELET CONFIRMED

N=NUMBER OF ANIMALS
 G/100ML=GRAMS PER 100 MILLILITERS
 NM=NORMAL RBC MORPHOLOGY

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN MALE DOGS
 PROTOCOL NO. 86P-78
 REPORT NO. 86R-121

TABLE 4
 HEMATOLOGY
 INDIVIDUAL VALUES

GROUP	SEX	DOSE	ANIMAL NUMBER	DAY 3		DAY 14		DAY 26	
				HGB G/100ML	COMMENTS	HGB G/100ML	COMMENTS	HGB G/100ML	COMMENTS
3	M	700 PPM	31709	14.2	NM	13.5	-	-	-
3	M	700 PPM	31729	14.8	NM	13.5	-	-	-
3	M	700 PPM	31733	13.6	WCNM	12.2	-	-	-
3	M	700 PPM	31734	14.2	NM	13.5	-	-	-
				MEAN	14.20	13.17			
				S.D.	0.49	0.65			
				N	4	4			

N=NUMBER OF ANIMALS
 G/100ML=GRAMS PER 100 MILLILITERS
 WC=WBC CONFIRMED
 S.D.= STANDARD DEVIATION
 HGB=HEMOGLOBIN
 ALL ANIMAL NUMBERS PRECEDED BY 86-
 NM=NORMAL RBC MORPHOLOGY

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN MALE DOGS
 PROTOCOL NO. 86P-78 REPORT NO. 86R-121

TABLE 4
 HEMATOLOGY INDIVIDUAL VALUES

GROUP	SEX	DOSE	ANIMAL NUMBER	DAY -3		DAY 14		DAY 26	
				HGB G/100ML	COMMENTS	HGB G/100ML	COMMENTS	HGB G/100ML	COMMENTS
6	M	1400 PPM	31705	13.4	WCNM	-	-	11.9VJ1D2WC	
6	M	1400 PPM	31732	15.0	PCNM	-	-	11.6VJ2D1	
6	M	1400 PPM	31735	12.2	NM	-	-	10.1VJ1	
6	M	1400 PPM	31738	12.8	PCNM	-	-	11.5VJ2D1	
				MEAN	13.35			11.27	
				S.D.	1.20			0.80	
				N	4			4	

S.D. = STANDARD DEVIATION

HGB = HEMOGLOBIN

ALL ANIMAL NUMBERS PRECEDED BY 86-

V = VERIFIED AND REPEATED

NM = NORMAL RBC MORPHOLOGY

D2 = SOME TARGET CELLS

J2 = MODERATE ANISOCYTOSIS

N=NUMBER OF ANIMALS
 G/100ML=GRAMS PER 100 MILLILITERS

WC=WBC CONFIRMED

J1=SLIGHT ANISOCYTOSIS

PC=PLATELET CONFIRMED

D1=FEW TARGET CELLS

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN MALE DOGS
 PROTOCOL NO. 86P-78
 REPORT NO. 86R-121

TABLE 4
 HEMATOLOGY
 INDIVIDUAL VALUES

GROUP	SEX	DOSE	ANIMAL NUMBER	DAY-3		DAY 14		DAY 26	
				MON	COMMENTS	MON	COMMENTS	MON	COMMENTS
1	M	0 PPM	31726	O	NM	O	NM	O	NM
1	M	0 PPM	31727	O	NM	O	NM	O	NM
1	M	0 PPM	31728	O	NM	O	NM	O	NM
1	M	0 PPM	31740	O	NM	O	NM	O	NM
				MEAN	0.0	0.0	0.0	0.0	0.0
				S.D.	0.0	0.0	0.0	0.0	0.0
				N	4	4	4	4	4

S.D. = STANDARD DEVIATION

MON=MONOCYTES

ALL ANIMAL NUMBERS PRECEDED BY 86-

NM=NORMAL RBC MORPHOLOGY

N=NUMBER OF ANIMALS

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN MALE DOGS
PROTOCOL NO. 86P-78
REPORT NO. 86R-121

INDIVIDUAL VALUES

S.D. = STANDARD DEVIATION
MON=MONOCYTES
ALL ANIMAL NUMBERS PRECEDED BY * IF PARAMETER NOT REQUIRED
NORM=NORMAL

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN MALE DOGS
 PROTOCOL NO. 86P-78
 REPORT NO. 86R-121

TABLE 4
 HEMATOLOGY
 INDIVIDUAL VALUES

GROUP	SEX	DOSE	ANIMAL NUMBER	DAY-3		DAY 14		DAY 26	
				MON	COMMENTS	MON	COMMENTS	MON	COMMENTS
3	M	700 PPM	31709	0	NM	*			
3	M	700 PPM	31729	0	NM	*			
3	M	700 PPM	31733	0	WCNM	*			
3	M	700 PPM	31734	0	NM	*			

MEAN
 S.D.
 N

S.D. = STANDARD DEVIATION
 MON=MONOCYTES
 ALL ANIMAL NUMBERS PRECEDED BY 86-
 * =PARAMETER NOT REQUIRED
 WC=WBC CONFIRMED

N=NUMBER OF ANIMALS

NM=NORMAL RBC MORPHOLOGY

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN MALE DOGS
 PROTOCOL NO. 86P-78
 REPORT NO. 86R-121

TABLE 4
 HEMATOLOGY
 INDIVIDUAL VALUES

GROUP	SEX	DOSE	ANIMAL NUMBER	DAY-3		DAY 14		DAY 26	
				MON	COMMENTS	MON	COMMENTS	MON	COMMENTS
6	M	1400 PPM	311705	O	WCRM	-	-	O	J1D2WC
6	M	1400 PPM	311732	O	PCM	-	-	O	J2D1
6	M	1400 PPM	311735	O	NM	-	-	O	J1
6	M	1400 PPM	311738	O	PCM	-	-	O	J2D1
				MEAN	0.0			0.0	
				S.D.	0.0			0.0	
				N	4			4	

S.D.= STANDARD DEVIATION

MON=MONOCYTES

ALL ANIMAL NUMBERS PRECEDED BY 86-

WC=WBC CONFIRMED

J1=SLIGHT ANISOCYTOSIS

PC=PLATELET CONFIRMED

D1=FEW TARGET CELLS

N=NUMBER OF ANIMALS

NM=NORMAL RBC MORPHOLOGY
 D2=SOME TARGET CELLS
 J2=Moderate Anisocytosis

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN MALE DOGS
 PROTOCOL NO. 86P-78
 REPORT NO. 86R-121

TABLE 4
 HEMATOLOGY
 INDIVIDUAL VALUES

GROUP	SEX	DOSE	ANIMAL NUMBER	DAY -3		DAY 14		DAY 26	
				LYM	COMMENTS	LYM	COMMENTS	LYM	COMMENTS
1	M	0 PPM	31726	43	NM	29	NM	-	-
1	M	0 PPM	31727	33	NM	25	NM	-	-
1	M	0 PPM	31728	45	NM	32	NM	-	-
1	M	0 PPM	31740	48	NM	35	NM	-	-
				MEAN	42.3	30.3			
				S.D.	6.5	4.3			
				N	4	4			

S.D. = STANDARD DEVIATION
 LYM=LYMPHOCYTES
 ALL ANIMAL NUMBERS PRECEDED BY 86-
 NM=NORMAL RBC MORPHOLOGY

N=NUMBER OF ANIMALS

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN MALE DOGS
 PROTOCOL NO. 86P-78

TABLE 4
 HEMATOLOGY
 INDIVIDUAL VALUES

GROUP	SEX	DOSE	ANIMAL NUMBER	DAY-3		DAY 14		DAY 26	
				LYM	COMMENTS	LYM	COMMENTS	LYM	COMMENTS
2	M	140 PPM	31730	47	PCNM	*	*	*	*
2	M	140 PPM	31736	52	NM	*	*	*	*
2	M	140 PPM	31741	24	NM	*	*	*	*
2	M	140 PPM	31742	49	NM	*	*	*	*
				MEAN	43.0				
				S.D.	12.8				
				N		4			
					N=NUMBER OF ANIMALS				
					PC=PLATELET CONFIRMED				
					LYM=Lymphocytes				
					ALL ANIMAL NUMBERS PRECEDED BY 86-				
					* = PARAMETER NOT REQUIRED				
					NM=NORMAL RBC MORPHOLOGY				

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN MALE DOGS
PROTOCOL NO. 86P-78 REPORT NO. 86R-121

INDIVIDUAL VALUES

3	M	700 PPM	31709	55	NM	*
3	M	700 PPM	31729	41	NM	*
3	M	700 PPM	31733	34	WCNM	*
3	M	700 PPM	31734	54	NM	*
				MEAN	46.0	4
				S.D.	10.2	

S.D. = STANDARD DEVIATION
 LYMPHOCYTES
 ALL ANIMAL NUMBERS PRECEDED BY * = PARAMETER NOT REQUIRED
 WC=WRC CONFORMED

N=NUMBER OF ANIMALS
NM=NORMAL RBC MORPHOLOGY

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN MALE DOGS
 PROTOCOL NO. 86P-78
 REPORT NO. 86R-121

TABLE 4
 HEMATOLOGY
 INDIVIDUAL VALUES

GROUP	SEX	DOSE	ANIMAL NUMBER	DAY-3 LYM	DAY 14 LYM	DAY 26 LYM	COMMENTS
6	M	1400 PPM	31705	49	WCNM	-	
6	M	1400 PPM	31732	47	PCNM	-	
6	M	1400 PPM	31735	29	NM	-	
6	M	1400 PPM	31738	32	PCNM	-	
MEAN				39.3		21.5	
S.D.				10.2		3.1	
N				4		4	

S.D.= STANDARD DEVIATION
 LYM=LYMPHOCTES
 ALL ANIMAL NUMBERS PRECEDED BY 86-
 WC=WBC CONFIRMED
 J1=SLIGHT ANISOCYTOSIS
 PC=PLATELET CONFIRMED
 D1=FEW TARGET CELLS

N=NUMBER OF ANIMALS

NM=NORMAL RBC MORPHOLOGY
 D2=SOME TARGET CELLS
 J2=Moderate Anisocytosis

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN MALE DOGS
 PROTOCOL NO. 86P-78 REPORT NO. 86R-121

TABLE 4
 HEMATOLOGY INDIVIDUAL VALUES

GROUP	SEX	DOSE	ANIMAL NUMBER	DAY-3		DAY 14		DAY 26	
				SEG	COMMENTS	SEG	COMMENTS	SEG	COMMENTS
1	M	0 PPM	31726	43	NM	68	NM	-	-
1	M	0 PPM	31727	63	NM	75	NM	-	-
1	M	0 PPM	31728	53	NM	64	NM	-	-
1	M	0 PPM	31740	49	NM	56	NM	-	-
				MEAN	54.5	65.8			
				S.D.	6.0	7.9			
				N	4	4			

S.D. = STANDARD DEVIATION
 SEG=SEGMENTED NEUTROPHILS
 ALL ANIMAL NUMBERS PRECEDED BY 86-
 NM=NORMAL RBC MORPHOLOGY

N=NUMBER OF ANIMALS

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN MALE DOGS
 PROTOCOL NO. 86P-78

TABLE 4
 HEMATOLOGY
 INDIVIDUAL VALUES

GROUP	SEX	DOSE	ANIMAL NUMBER	DAY-3		DAY 14		DAY 26	
				SEG	COMMENTS	SEG	COMMENTS	SEG	COMMENTS
2	M	140 PPM	31730	47	PCNM	*	-	-	-
2	M	140 PPM	31736	45	NM	*	-	-	-
2	M	140 PPM	31741	76	NM	*	-	-	-
2	M	140 PPM	31742	49	NM	*	-	-	-
				MEAN	54.3				
				S.D.	14.6				
				N	4				

S.D.= STANDARD DEVIATION
 SEG=SEGMENTED NEUTROPHILS
 ALL ANIMAL NUMBERS PRECEDED BY 86-
 * =PARAMETER NOT REQUIRED
 NM=NORMAL RBC MORPHOLOGY

N=NUMBER OF ANIMALS

PC=PLATELET CONFIRMED

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN MALE DOGS
 PROTOCOL NO. 86P-78
 REPORT NO. 86R-121

TABLE 4
 HEMATOLOGY
 INDIVIDUAL VALUES

GROUP	SEX	DOSE	ANIMAL NUMBER	DAY-3		DAY 14		DAY 26	
				SEG	COMMENTS	SEG	COMMENTS	SEG	COMMENTS
3	M	700 PPM	31709	40	NM	*	-	-	-
3	M	700 PPM	31729	57	NM	*	-	-	-
3	M	700 PPM	31733	65	WCNM	*	-	-	-
3	M	700 PPM	31734	43	NM	*	-	-	-
				MEAN	51.3				
				S.D.	11.6				
				N	4				

S.D.= STANDARD DEVIATION
 SEG=SEGMENTED NEUTROPHILS
 ALL ANIMAL NUMBERS PRECEDED BY 86-
 *PARAMETER NOT REQUIRED
 WC=WBC CONFIRMED

N=NUMBER OF ANIMALS

NM=NORMAL RBC MORPHOLOGY

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN MALE DOGS
 PROTOCOL NO. 86P-78 REPORT NO. 86R-121

TABLE 4 HEMATOLOGY INDIVIDUAL VALUES

GROUP	SEX	DOSE	ANIMAL NUMBER	DAY-3		DAY 14		DAY 26	
				SEG	COMMENTS	SEG	COMMENTS	SEG	COMMENTS
6	M	1400 PPM	31705	45	WCNM	-	-	76	J1D2WC
6	M	1400 PPM	31732	48	PCNM	-	-	72	J2D1
6	M	1400 PPM	31735	62	NM	-	-	69	J1
6	M	1400 PPM	31738	65	PCNM	-	-	72	J2D1
				MEAN	55.0	72.3			
				S.D.	10.0	2.9			
				N	4				

S.D. = STANDARD DEVIATION
 SEG=SEGMENTED NEUTROPHILS
 ALL ANIMAL NUMBERS PRECEDED BY 86-
 WC=WBC CONFIRMED
 J1=SLIGHT ANISOCYTOSIS
 PC=PLATELET CONFIRMED
 D1=FEW TARGET CELLS

N=NUMBER OF ANIMALS

N=NORMAL RBC MORPHOLOGY
 D2=SOME TARGET CELLS
 J2=Moderate Anisocytosis

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN MALE DOGS
 PROTOCOL NO. 86P-78 REPORT NO. 86R-121

TABLE 4
 HEMATOLOGY
 INDIVIDUAL VALUES

GROUP	SEX	DOSE	ANIMAL NUMBER	DAY-3		DAY 14		DAY 26	
				BAN	COMMENTS	BAN	COMMENTS	BAN	COMMENTS
1	M	0 PPM	311726	2	NM	1	NM	-	-
1	M	0 PPM	311727	2	NM	0	NM	-	-
1	M	0 PPM	311728	1	NM	3	NM	-	-
1	M	0 PPM	311740	2	NM	6	NM	-	-
				MEAN	1.8	2.5			
				S.D.	0.5	2.6			
				N	4	4			

S.D.= STANDARD DEVIATION

BAN=BANDS

ALL ANIMAL NUMBERS PRECEDED BY 86-

N=N=NUMBER OF ANIMALS

NM=NORMAL RBC MORPHOLOGY

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN MALE DOGS
 PROTOCOL NO. 86P-78
 REPORT NO. 86R-121

TABLE 4
 HEMATOLOGY
 INDIVIDUAL VALUES

GROUP	SEX	DOSE	ANIMAL NUMBER	DAY-3		DAY 14		DAY 26	
				BAN	COMMENTS	BAN	COMMENTS	BAN	COMMENTS
2	M	140 PPM	311730	2	PCNM	*	-	-	-
2	M	140 PPM	31736	2	NM	*	-	-	-
2	M	140 PPM	31741	0	NM	*	-	-	-
2	M	140 PPM	31742	0	NM	*	-	-	-
				MEAN	1.0				
				S.D.	1.2				
				N	4				

S.D. = STANDARD DEVIATION

BAN=BANDS

ALL ANIMAL NUMBERS PRECEDED BY 86-

* = PARAMETER NOT REQUIRED

NM=NORMAL RBC MORPHOLOGY

N=NUMBER OF ANIMALS

PC=PLATELET CONFIRMED

RH-5649: TWO-WEEK DIETARY RANGE-FINDING STUDY IN MALE DOGS
 PROTOCOL NO. 86P-78 REPORT NO. 86R-121

TABLE 4 HEMATOLOGY INDIVIDUAL VALUES

GROUP	SEX	DOSE	ANIMAL NUMBER	DAY 3 BAN	COMMENTS	DAY 14 BAN	COMMENTS	DAY 26 BAN	COMMENTS
3	M	700 PPM	31709	5 NM	*	*	*	-	-
3	M	700 PPM	31729	1 NM	*	*	*	-	-
3	M	700 PPM	31733	0 WCNM	*	*	*	-	-
3	M	700 PPM	31734	1 NM	*	*	*	-	-
				MEAN	1.8				
				S.D.	2.2				
				N	4				

S.D. = STANDARD DEVIATION
 BAN=BANDS

ALL ANIMAL NUMBERS PRECEDED BY 86-
 * =PARAMETER NOT REQUIRED

WC=WBC CONFIRMED

N=NUMBER OF ANIMALS

NM=NORMAL RBC MORPHOLOGY

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN MALE DOGS
 PROTOCOL NO. 86P-78 REPORT NO. 86R-121

TABLE 4
 HEMATOLOGY INDIVIDUAL VALUES

GROUP	SEX	DOSE	ANIMAL NUMBER	DAY-3		DAY 14		DAY 26	
				BAN	COMMENTS	BAN	COMMENTS	BAN	COMMENTS
6	M	1400 PPM	31705	4	WCNM	-	-	4	J1D2WC
6	M	1400 PPM	31732	2	PCNM	-	-	5	J2D1
6	M	1400 PPM	31735	6	NM	-	-	6	J1
6	M	1400 PPM	31738	2	PCNM	-	-	3	J2D1
				MEAN	3.5	4.5			
				S.D.	1.9	1.3			
				N	4	4			

S.D. = STANDARD DEVIATION

BAN=BANDS

ALL ANIMAL NUMBERS PRECEDED BY 86-

WC=WBC CONFIRMED

J1=SLIGHT ANISOCYTOSIS

PC=PLATELET CONFIRMED

D1=FEW TARGET CELLS

N=NUMBER OF ANIMALS

NM=NORMAL RBC MORPHOLOGY

D2=SOME TARGET CELLS

J2=Moderate Anisocytosis

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN MALE DOGS
PROTOCOL NO. 86P-78 REPORT NO. 86R-121

TABLE 4
INDIVIDUAL VALUES
HEMATOLOGY

GROUP	SEX	DOSE	ANIMAL NUMBER	DAY-3		DAY 14		DAY 26	
				PLAT 10E3/CMM	COMMENTS	PLAT 10E3/CMM	COMMENTS	PLAT 10E3/CMM	COMMENTS
1	M	0 PPM	31726	435	NM	430	NM	-	-
1	M	0 PPM	31727	369	NM	403	NM	-	-
1	M	0 PPM	31728	338	NM	333	NM	-	-
1	M	0 PPM	31740	475	NM	466	NM	-	-
				MEAN	404.3	408.0			
				S.D.	62.1	56.3			
				N	4	4			

S.D. = STANDARD DEVIATION
ALL ANIMAL NUMBERS PRECEDED BY 86-
PLAT=PLATELETS
NM=NORMAL RBC MORPHOLOGY

N=NUMBER OF ANIMALS

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN MALE DOGS
 PROTOCOL NO. 86P-78
 REPORT NO. 86R-121

TABLE 4 HEMATOLOGY INDIVIDUAL VALUES

GROUP	SEX	DOSE	ANIMAL NUMBER	DAY-3		DAY 14		DAY 26	
				PLAT	10E3/CMM COMMENTS	PLAT	10E3/CMM COMMENTS	PLAT	10E3/CMM COMMENTS
2	M	140 PPM	31730	276	VPCNM	297	V	-	-
2	M	140 PPM	31736	398	NM	353	-	-	-
2	M	140 PPM	31741	322	NM	317	-	-	-
2	M	140 PPM	31742	345	NM	354	-	-	-
				MEAN	335.3	330.3	N=NUMBER OF ANIMALS		
				S.D.	50.7	28.1	10E3/CMM = 1000 PER CUBIC MILLIMETER		
				N	4	4	PC=PLATELET CONFIRMED		

S.D.= STANDARD DEVIATION
 ALL ANIMAL NUMBERS PRECEDED BY 86-
 PLAT=PLATELETS
 V=VERIFIED AND REPEATED
 NM=NORMAL RBC MORPHOLOGY

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN MALE DOGS
 PROTOCOL NO. 86P-78
 REPORT NO. 86R-121

TABLE 4
 HEMATOLOGY
 INDIVIDUAL VALUES

GROUP	SEX	DOSE	ANIMAL NUMBER	DAY-3		DAY 14		DAY 26	
				PLAT	10E3/CMM COMMENTS	PLAT	10E3/CMM COMMENTS	PLAT	10E3/CMM COMMENTS
3	M	700 PPM	31709	384	NM	495	-	-	-
3	M	700 PPM	31729	372	NM	610	-	-	-
3	M	700 PPM	31733	342	WC/NM	409	-	-	-
3	M	700 PPM	31734	324	NM	462	-	-	-
				MEAN	355.5	494.0			
				S.D.	27.4	85.1			
				N	4	4			

S.D. = STANDARD DEVIATION
 ALL ANIMAL NUMBERS PRECEDED BY 86-
 PLAT=PLATELETS
 NM=NORMAL RBC MORPHOLOGY

N=NUMBER OF ANIMALS
 10E3/CMM = 1000 PER CUBIC MILLIMETER
 WC=WBC CONFIRMED

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN MALE DOGS
 PROTOCOL NO. 86P-78 REPORT NO. 86R-121

TABLE 4
 HEMATOLOGY INDIVIDUAL VALUES

GROUP	SEX	DOSE	ANIMAL NUMBER	DAY-3 PLAT 10E3/CMM	DAY 14 PLAT 10E3/CMM	DAY 26 PLAT 10E3/CMM	COMMENTS
6	M	1400 PPM	31705	331	WCNM	-	
6	M	1400 PPM	31732	283	VPCNM	-	
6	M	1400 PPM	31735	515	NM	-	
6	M	1400 PPM	31738	296	VPCNM	-	
MEAN				356.3		642.0	
S.D.				107.8		179.6	
N				4		4	

S.D. = STANDARD DEVIATION
 ALL ANIMAL NUMBERS PRECEDED BY 86-
 PLAT=PLATELETS
 WC=WBC CONFIRMED
 NM=NORMAL RBC MORPHOLOGY
 J1=SLIGHT ANISOCYTOSIS
 V=VERIFIED AND REPEATED
 J2=MODERATE ANISOCYTOSIS

N=NUMBER OF ANIMALS

10E3/CMM=1000 PER CUBIC MILLIMETER
 NM=NORMAL RBC MORPHOLOGY
 D2=SOME TARGET CELLS
 PC=PLATELET CONFIRMED
 D1=FEW TARGET CELLS

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN MALE DOGS
PROTOCOL NO. 86P-78 REPORT NO. 86R-121

TABLE 4 INDIVIDUAL VALUES

GROUP	SEX	DOSE	ANIMAL NUMBER	DAY-3		DAY 14		DAY 26	
				EOS	COMMENTS	EOS	COMMENTS	EOS	COMMENTS
1	M	0 PPM	31726		2 NM			2 NM	-
1	M	0 PPM	31727		2 NM			0 NM	-
1	M	0 PPM	31728		1 NM			1 NM	-
1	M	0 PPM	31740		1 NM			3 NM	-

S.D. = STANDARD DEVIATION
EOS = EOSINOPHILS
ALL ANIMAL NUMBERS PRECEDED BY
NM = NORMAL PRC MORPHOLOGY

N=NUMBER OF ANIMALS

EOS-EOSINOPHILS
ALL ANIMAL NUMBERS PRECEDED BY 86-
NM=NORMAL RBC MORPHOLOGY

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN MALE DOGS
 PROTOCOL NO. 86P-78
 REPORT NO. 86R-121

TABLE 4
 HEMATOLOGY
 INDIVIDUAL VALUES

GROUP	SEX	DOSE	ANIMAL NUMBER	DAY-3		DAY 14 EOS	DAY 26 EOS	COMMENTS
				EOS	COMMENTS			
2	M	140 PPM	311730	4	PCNM	*	-	
2	M	140 PPM	311736	1	NM	*	-	
2	M	140 PPM	311741	0	NM	*	-	
2	M	140 PPM	311742	2	NM	*	-	

MEAN
 S.D.
 N

N=NUMBER OF ANIMALS

S.D.= STANDARD DEVIATION

EOS=EOSINOPHILS

ALL ANIMAL NUMBERS PRECEDED BY 86-

*=PARAMETER NOT REQUIRED

NM=NORMAL RBC MORPHOLOGY

PC=PLATELET CONFIRMED

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN MALE DOGS
 PROTOCOL NO. 86P-78

TABLE 4
 HEMATOLOGY
 INDIVIDUAL VALUES

GROUP	SEX	DOSE	ANIMAL NUMBER	DAY 3		DAY 14		DAY 26	
				EOS	COMMENTS	EOS	COMMENTS	EOS	COMMENTS
3	M	700 PPM	31709	0	NM	*	-	-	-
3	M	700 PPM	31729	1	NM	*	-	-	-
3	M	700 PPM	31733	1	WCNM	*	-	-	-
3	M	700 PPM	31734	2	NM	*	-	-	-

MEAN
 S.D.
 N

S.D. = STANDARD DEVIATION
 EOS = EOSINOPHILS
 ALL ANIMAL NUMBERS PRECEDED BY 86-
 * = PARAMETER NOT REQUIRED
 WC = WBC CONFIRMED

N=NUMBER OF ANIMALS

NM = NORMAL RBC MORPHOLOGY

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN MALE DOGS
 PROTOCOL NO. 86P-78
 REPORT NO. 86R-121

TABLE 4
 HEMATOLOGY
 INDIVIDUAL VALUES

GROUP	SEX	DOSE	ANIMAL NUMBER	DAY-3 EOS COMMENTS	DAY 14 EOS COMMENTS	DAY 26 EOS COMMENTS
6	M	1400 PPM	31705	2 WCNM 3 PCNM	-	2 J1D2WC 3 J2D1
6	M	1400 PPM	31732	3 NM	-	0 J1 2 J2D1
6	M	1400 PPM	31735	1 PCNM	-	
6	M	1400 PPM	31738			
MEAN				2.3	1.8	
S.D.				1.0	1.3	
N				.4	4	

S.D. = STANDARD DEVIATION
 EOS=EOSINOPHILS
 ALL ANIMAL NUMBERS PRECEDED BY 86-
 WC=WBC CONFIRMED
 J1=SLIGHT ANISOCYTOSIS
 PC=PLATELET CONFIRMED
 D1=FEW TARGET CELLS

N=NUMBER OF ANIMALS

NM=NORMAL RBC MORPHOLOGY
 D2=SOME TARGET CELLS
 J2=Moderate Anisocytosis

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN MALE DOGS
 PROTOCOL NO. 86P-78
 REPORT NO. 86R-121

TABLE 4
 HEMATOLOGY
 INDIVIDUAL VALUES

GROUP	SEX	DOSE	ANIMAL NUMBER	DAY-3		DAY 14		DAY 26	
				BAS	COMMENTS	BAS	COMMENTS	BAS	COMMENTS
1	M	0 PPM	31726	0	NM	0	NM	0	NM
1	M	0 PPM	31727	0	NM	0	NM	0	NM
1	M	0 PPM	31728	0	NM	0	NM	0	NM
1	M	0 PPM	31740	0	NM	0	NM	0	NM
				MEAN	0.0	0.0	0.0	0.0	0.0
				S.D.	0.0	0.0	0.0	0.0	0.0
				N	4	4	4	4	4

S.D. = STANDARD DEVIATION
 BAS=BASOPHILS
 ALL ANIMAL NUMBERS PRECEDED BY 86-
 NM=NORMAL RBC MORPHOLOGY

N=NUMBER OF ANIMALS

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN MALE DOGS
 PROTOCOL NO. 86P-78 REPORT NO. 86R-121

TABLE 4
 HEMATOLOGY INDIVIDUAL VALUES

GROUP	SEX	DOSE	ANIMAL NUMBER	DAY-3		DAY 14		DAY 26	
				BAS	COMMENTS	BAS	COMMENTS	BAS	COMMENTS
2	M	140 PPM	31730	0	PCNM	*	*	-	-
2	M	140 PPM	31736	0	NM	*	*	-	-
2	M	140 PPM	31741	0	NM	*	*	-	-
2	M	140 PPM	31742	0	NM	*	*	-	-

MEAN
 S.D.
 N

S.D. = STANDARD DEVIATION
 BAS=BASOPHILS
 ALL ANIMAL NUMBERS PRECEDED BY 86-
 * = PARAMETER NOT REQUIRED
 .NM= NORMAL RBC MORPHOLOGY

N=NUMBER OF ANIMALS

PC=PLATELET CONFIRMED

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN MALE DOGS
 PROTOCOL NO. 86P-78 REPORT NO. 86R-121

TABLE 4 HEMATOLOGY INDIVIDUAL VALUES

GROUP	SEX	DOSE	ANIMAL NUMBER	DAY -3		DAY 14		DAY 26	
				BAS	COMMENTS	BAS	COMMENTS	BAS	COMMENTS
3	M	700 PPM	311709	0	NM	*	*	-	-
3	M	700 PPM	311729	0	NM	*	*	-	-
3	M	700 PPM	311733	0	WCNM	*	*	-	-
3	M	700 PPM	311734	0	NM	*	*	-	-
				MEAN	0.0	S.D.	0.0		
				N	4				

S.D. = STANDARD DEVIATION

BAS=BASOPHILS

ALL ANIMAL NUMBERS PRECEDED BY 86-

*=PARAMETER NOT REQUIRED
 WC=WBC CONFIRMED

N=NUMBER OF ANIMALS

NM=NORMAL RBC MORPHOLOGY

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN MALE DOGS
 PROTOCOL NO. 86P-78 REPORT NO. 86R-121

TABLE 4
 HEMATOLOGY INDIVIDUAL VALUES

GROUP, SEX	DOSE	ANIMAL NUMBER	DAY-3 BAS COMMENTS	DAY 14 BAS COMMENTS	DAY 26 BAS COMMENTS
6 M	1400 PPM	31705	O WCNM	-	O J1D2WC
6 M	1400 PPM	31732	O PCNM	-	O J2D1
6 M	1400 PPM	31735	O NM	-	O J1
6 M	1400 PPM	31738	O PCNM	-	O J2D1
MEAN			0.0	0.0	0.0
S.D.			0.0	0.0	0.4
N			4		

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 ALL ANIMAL NUMBERS PRECEDED BY 86-
 WC=WBC CONFIRMED
 J1=SLIGHT ANISOCYTOSIS
 PC=PLATELET CONFIRMED
 D1=FEW TARGET CELLS

N=NUMBER OF ANIMALS

NM=NORMAL RBC MORPHOLOGY
 D2=SOME TARGET CELLS
 J2=Moderate Anisocytosis

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN MALE DOGS
 PROTOCOL NO. 86P-78
 REPORT NO. 86R-121

TABLE 4
 HEMATOLOGY
 INDIVIDUAL VALUES

GROUP	SEX	DOSE	ANIMAL NUMBER	DAY-3		DAY 14		DAY 26	
				MYE	COMMENTS	MYE	COMMENTS	MYE	COMMENTS
1	M	0 PPM	31726	0	NM	0	NM	0	NM
1	M	0 PPM	31727	0	NM	0	NM	0	NM
1	M	0 PPM	31728	0	NM	0	NM	0	NM
1	M	0 PPM	31740	0	NM	-	-	-	-
				MEAN	0.0	0.0	0.0	0.0	0.0
				S.D.	0.0	0.0	0.0	0.0	0.0
				N	4	4	4	4	4

S.D. = STANDARD DEVIATION

MYE=MYELOCYTES

ALL ANIMAL NUMBERS PRECEDED BY 86-

N=NUMBER OF ANIMALS

NM=NORMAL RBC MORPHOLOGY

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN MALE DOGS
 PROTOCOL NO. 86P-78
 REPORT NO. 86R-121

TABLE 4
 HEMATOLOGY
 INDIVIDUAL VALUES

GROUP	SEX	DOSE	ANIMAL NUMBER	DAY-3 MYE	DAY 14 MYE	DAY 26 MYE	COMMENTS	COMMENTS	COMMENTS
2	M	140 PPM	311730	0	PCNM	*	-	-	-
2	M	140 PPM	311736	0	NM	*	-	-	-
2	M	140 PPM	311741	0	NM	*	-	-	-
2	M	140 PPM	311742	0	NM	*	-	-	-
MEAN				0.0					
S.D.				0.0					
N				4					

S.D. = STANDARD DEVIATION

MYE=MYELOCYTES

ALL ANIMAL NUMBERS PRECEDED BY 86-

*=PARAMETER NOT REQUIRED

NM=NORMAL RBC MORPHOLOGY

N=NUMBER OF ANIMALS

PC=PLATELET CONFIRMED

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN MALE DOGS
 PROTOCOL NO. 86P-78
 REPORT NO. 86R-121

TABLE 4
 HEMATOLOGY
 INDIVIDUAL VALUES

GROUP	SEX	DOSE	ANIMAL NUMBER	DAY-3 NYE COMMENTS	DAY 14	DAY 26	NYE COMMENTS
					NYE	NYE	
3	M	700 PPM	31709	O NM	*	*	
3	M	700 PPM	31729	O NM	*	*	
3	M	700 PPM	31733	O WCNM	*	*	
3	M	700 PPM	31734	O NM	*	*	
				MEAN S.D. N	0.0 0.0 4		

S.D. = STANDARD DEVIATION

NYE=NYELOCYTES

ALL ANIMAL NUMBERS PRECEDED BY 86-

*=PARAMETER NOT REQUIRED

WC=WBC CONFIRMED

N=NUMBER OF ANIMALS

NM=NORMAL RBC MORPHOLOGY

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN MALE DOGS
 PROTOCOL NO. 86P-78
 REPORT NO. 86R-121

TABLE 4
 HEMATOLOGY
 INDIVIDUAL VALUES

GROUP	SEX	DOSE	ANIMAL NUMBER	DAY-3		DAY 14		DAY 26	
				MYE	COMMENTS	MYE	COMMENTS	MYE	COMMENTS
6	M	1400 PPM	31705	0	WCNM	-	-	0	J1D2WC
6	M	1400 PPM	31732	0	PCNM	-	-	0	J2D1
6	M	1400 PPM	31735	0	NM	-	-	0	J1
6	M	1400 PPM	31738	0	PCNM	-	-	0	J2D1
				MEAN	0.0	0.0	0.0	0.0	
				S.D.	0.0	0.0	0.0	0.0	
				N	4	4	4	4	

S.D.= STANDARD DEVIATION

MYE=MYELOCYTES

ALL ANIMAL NUMBERS PRECEDED BY 86-

WC=WBC CONFIRMED

J1=SLIGHT ANISOCYTOSIS

PC=PLATELET CONFIRMED

D1=FEW TARGET CELLS

N=NUMBER OF ANIMALS

NM=NORMAL RBC MORPHOLOGY
 D2=SOME TARGET CELLS
 J2=Moderate Anisocytosis

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN MALE DOGS
 PROTOCOL NO. 86P-78
 REPORT NO. 86R-121

TABLE 4
 HEMATOLOGY
 INDIVIDUAL VALUES

GROUP	SEX	DOSE	ANIMAL NUMBER	DAY-3		DAY 14		DAY 26	
				MET	COMMENTS	MET	COMMENTS	MET	COMMENTS
1	M	0 PPM	311726	0	NM	0	NM	0	NM
1	M	0 PPM	311727	0	NM	0	NM	0	NM
1	M	0 PPM	311728	0	NM	0	NM	0	NM
1	M	0 PPM	311740	0	NM	0	NM	0	NM
				MEAN	0.0	0.0	0.0	S.D.	0.0
				N	4				4

S.D. = STANDARD DEVIATION

MET=METAMYELOCYTES

ALL ANIMAL NUMBERS PRECEDED BY 86-

NM=NORMAL RBC MORPHOLOGY

N=NUMBER OF ANIMALS

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN MALE DOGS
 PROTOCOL NO. 86P-78 REPORT NO. 86R-121

TABLE 4 HEMATOLOGY INDIVIDUAL VALUES

GROUP	SEX	DOSE	ANIMAL NUMBER	DAY -3		DAY 14		DAY 26	
				MET	COMMENTS	MET	COMMENTS	MET	COMMENTS
2	M	140 PPM	31730	0	PCNM	*	*	-	-
2	M	140 PPM	31736	0	NM	*	*	-	-
2	M	140 PPM	31741	0	NM	*	*	-	-
2	M	140 PPM	31742	0	NM	*	*	-	-
				MEAN	0.0	S.D.	0.0		
				N	4				

S.D.= STANDARD DEVIATION

MET=METAMYELOCYTES

ALL ANIMAL NUMBERS PRECEDED BY 86-

*=PARAMETER NOT REQUIRED

NM=NORMAL RBC MORPHOLOGY

N=NUMBER OF ANIMALS

PC=PLATELET CONFIRMED

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN MALE DOGS
 PROTOCOL NO. 86P-78 REPORT NO. 86R-121

TABLE 4
 HEMATOLOGY INDIVIDUAL VALUES

GROUP	SEX	DOSE	ANIMAL NUMBER	DAY-3		DAY 14		DAY 26	
				NET	COMMENTS	NET	COMMENTS	NET	COMMENTS
3	M	700 PPM	31709	0	NM	*		-	
3	M	700 PPM	31729	0	NM	*		-	
3	M	700 PPM	31733	0	WCNM	*		-	
3	M	700 PPM	31734	0	NM	*		-	
				MEAN	0.0	S.D.	0.0	N	4

S.D. = STANDARD DEVIATION
 NET=METAMYEOCYTES
 ALL ANIMAL NUMBERS PRECEDED BY 86-
 **PARAMETER NOT REQUIRED
 WC=WBC CONFIRMED

N=NUMBER OF ANIMALS

NM=NORMAL RBC MORPHOLOGY

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN MALE DOGS
 PROTOCOL NO. 86P-78 REPORT NO. 86R-121

TABLE 4
 HEMATOLOGY INDIVIDUAL VALUES

GROUP	SEX	DOSE	ANIMAL NUMBER	DAY-3		DAY 14		DAY 26	
				MET	COMMENTS	MET	COMMENTS	MET	COMMENTS
6	M	1400 PPM	31705	0	WCNM	-	-	0	J1D2WC
6	M	1400 PPM	31732	0	PCNM	-	-	0	J2D1
6	M	1400 PPM	31735	0	NM	-	-	0	J1
6	M	1400 PPM	31738	0	PCNM	-	-	0	J2D1
				MEAN	0.0	0.0	0.0	0.0	
				S.D.	0.0	0.0	0.0	0.0	
				N	4	4	4	4	

S.D.= STANDARD DEVIATION
 MET=METAMYELOCYTES
 ALL ANIMAL NUMBERS PRECEDED BY 86-
 WC=WBC CONFIRMED
 J1=SLIGHT ANISOCYTOSIS
 PC=PLATELET CONFIRMED
 D1=FEW TARGET CELLS

N=NUMBER OF ANIMALS

NM=NORMAL RBC MORPHOLOGY
 D2=SOME TARGET CELLS
 J2=Moderate Anisocytosis

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN MALE DOGS
 PROTOCOL NO. 86P-78
 REPORT NO. 86R-121

TABLE 4
 HEMATOLOGY
 INDIVIDUAL VALUES

GROUP	SEX	DOSE	ANIMAL NUMBER	DAY -3			DAY 14			DAY 26		
				MCH	UUG	COMMENTS	MCH	UUG	COMMENTS	MCH	UUG	COMMENTS
1	M	0 PPM	31726	21.7	NM		21.6	NM				
1	M	0 PPM	31727	21.2	NM		21.7	NM				
1	M	0 PPM	31728	22.7	NM		23.4	NM				
1	M	0 PPM	31740	21.4	NM		21.9	NM				
			MEAN	21.75			22.15					
			S.D.	0.67			0.84					
			N	4			4					

S.D. = STANDARD DEVIATION
 MCH=MEAN CELL HEMOGLOBIN
 ALL ANIMAL NUMBERS PRECEDED BY 86-
 NM=NORMAL RBC MORPHOLOGY

N=NUMBER OF ANIMALS
 UUG = EXPRESSED AS MICROMICROGRAMS

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN MALE DOGS
 PROTOCOL NO. 86P-78
 REPORT NO. 86R-121

TABLE 4
 HEMATOLOGY
 INDIVIDUAL VALUES

GROUP	SEX	DOSE	ANIMAL NUMBER	DAY-3			DAY 14			DAY 26		
				MCH	UUG	COMMENTS	MCH	UUG	COMMENTS	MCH	UUG	COMMENTS
2	M	140 PPM	31730	21.6	PCNM		22.9					
2	M	140 PPM	31736	20.9	NM		21.6					
2	M	140 PPM	31741	21.6	NM		22.1					
2	M	140 PPM	31742	22.0	NM		23.4					
				MEAN	21.52		22.50					
				S.D.	0.46		0.80					
				N	4		4					

S.D.= STANDARD DEVIATION
 MCH=MEAN CELL HEMOGLOBIN
 ALL ANIMAL NUMBERS PRECEDED BY 86-
 PC=PLATELET CONFIRMED

N=NUMBER OF ANIMALS
 UUG = EXPRESSED AS MICROMICROGRAMS
 NM=NORMAL RBC MORPHOLOGY

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN MALE DOGS
 PROTOCOL NO. 86P-78
 REPORT NO. 86R-121

TABLE 4
 HEMATOLOGY
 INDIVIDUAL VALUES

GROUP	SEX	DOSE	ANIMAL NUMBER	DAY-3 MCH UUG	DAY 14 MCH UUG	DAY 26 MCH UUG	COMMENTS	COMMENTS
3	M	700 PPM	31709	21.1 NM	22.0	-	-	-
3	M	700 PPM	31729	21.5 NM	21.6	-	-	-
3	M	700 PPM	31733	21.2 WCNM	22.6	-	-	-
3	M	700 PPM	31734	21.9 NM	23.3	-	-	-
MEAN				21.42	22.37			
S.D.				0.36	0.74			
N				4	4			

S.D. = STANDARD DEVIATION
 MCH=MEAN CELL HEMOGLOBIN
 ALL ANIMAL NUMBERS PRECEDED BY 86-
 NM=NORMAL RBC MORPHOLOGY

N=NUMBER OF ANIMALS
 UUG = EXPRESSED AS MICROMICROGRAMS
 WC=WBC CONFIRMED

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN MALE DOGS
 PROTOCOL NO. 86P-78
 REPORT NO. 86R-121

TABLE 4
 HEMATOLOGY
 INDIVIDUAL VALUES

GROUP	SEX	DOSE	ANIMAL NUMBER	DAY-3			DAY 14			DAY 26		
				MCH	UUG	COMMENTS	MCH	UUG	COMMENTS	MCH	UUG	COMMENTS
6	M	1400 PPM	31705	21.0	WCNM					22.2	J1D2WC	
6	M	1400 PPM	31732	18.8	PCNM					20.4	J2D1	
6	M	1400 PPM	31735	20.5	NM					22.7	J1	
6	M	1400 PPM	31738	20.6	PCNM					22.7	J2D1	
				MEAN	20.22			22.00				
				S.D.	0.97			1.09				
				N	4							

S.D. = STANDARD DEVIATION
 MCH = MEAN CELL HEMOGLOBIN
 ALL ANIMAL NUMBERS PRECEDED BY 86-
 WC = WBC CONFIRMED
 J1 = SLIGHT ANISOCYTOSIS
 PC = PLATELET CONFIRMED
 D1 = FEW TARGET CELLS

N=NUMBER OF ANIMALS
 UUG = EXPRESSED AS MICROMICROGRAMS
 NM = NORMAL RBC MORPHOLOGY
 D2 = SOME TARGET CELLS
 J2 = MODERATE ANISOCYTOSIS

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN MALE DOGS
PROTOCOL NO. 86P-78 REPORT NO. 86R-121

TABLE 4 INDIVIDUAL VALUES HEMATOLOGY

GROUP	SEX	DOSE	ANIMAL NUMBER	DAY-3 MCV CM	COMMENTS	DAY 14 MCV CM	COMMENTS	DAY 26 MCV CM	COMMENTS
1	M	0 PPM	31726	74	NM	75	NM	-	-
1	M	0 PPM	31727	74	NM	75	NM	-	-
1	M	0 PPM	31728	77	NM	77	NM	-	-
1	M	0 PPM	31740	74	NM	74	NM	-	-
				MEAN	74.8			75.3	
				S.D.	1.5			1.3	
				N	4			4	

S. D. = STANDARD DEVIATION
 MCV = MEAN CORPUSCULAR VOLUME
 ALL ANIMAL NUMBERS PRECEDED BY
 NM = NORMAL RBC MORPHOLOGY

N=NUMBER OF ANIMALS
CM=CUBIC MICRONS

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN MALE DOGS
 PROTOCOL NO. 86P-78
 REPORT NO. 86R-121

TABLE 4
 HEMATOLOGY
 INDIVIDUAL VALUES

GROUP	SEX	DOSE	ANIMAL NUMBER	DAY-3		DAY 14		DAY 26	
				MCV	CM	COMMENTS	MCV	CM	COMMENTS
2	M	140 PPM	311730	76	PCM	77	-	-	-
2	M	140 PPM	311736	73	NM	73	-	-	-
2	M	140 PPM	311741	76	NM	76	-	-	-
2	M	140 PPM	311742	76	NM	76	-	-	-
				MEAN	75.3	75.5	N=NUMBER OF ANIMALS		
				S.D.	1.5	1.7	CM=CUBIC MICRONS		
				N	4	4	NM=NORMAL RBC MORPHOLOGY		

S.D.= STANDARD DEVIATION
 MCV=MEAN CORPUSCULAR VOLUME
 ALL ANIMAL NUMBERS PRECEDED BY 86-
 PC=PLATELET CONFIRMED

RH-5869: TWO-WEEK DIETARY RANGE-FINDING STUDY IN MALE DOGS
 PROTOCOL NO. 86P-78 REPORT NO. 86R-121

TABLE 4 HEMATOLOGY INDIVIDUAL VALUES

GROUP	SEX	DOSE	ANIMAL NUMBER	DAY-3		DAY 14		DAY 26	
				MCV	CM	COMMENTS	CM	COMMENTS	MCV
3	M	700 PPM	31709	74	NM		75		
3	M	700 PPM	31729	74	NM		76		
3	M	700 PPM	31733	75	WCNM		77		
3	M	700 PPM	31734	77	NM		79		
				MEAN	75.0		76.8		
				S.D.	1.4		1.7		
				N	4		4		

S.D.= STANDARD DEVIATION
 MCV=MEAN CORPUSCULAR VOLUME
 ALL ANIMAL NUMBERS PRECEDED BY 86-
 NM=NORMAL RBC MORPHOLOGY

N=NUMBER OF ANIMALS
 CM=CUBIC MICRONS
 WC=WBC CONFIRMED

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN MALE DOGS
 PROTOCOL NO. 86P-78
 REPORT NO. 86R-121

TABLE 4
 HEMATOLOGY
 INDIVIDUAL VALUES

GROUP	SEX	DOSE	ANIMAL NUMBER	DAY-3			DAY 14			DAY 26		
				MCV	CM	COMMENTS	MCV	CM	COMMENTS	MCV	CM	COMMENTS
6	M	1400 PPM	31705	74	WCNM					74	J1D2WC	
6	M	1400 PPM	31732	70	PCNM					71	J2D1	
6	M	1400 PPM	31735	72	NM					74	J1	
6	M	1400 PPM	31736	72	PCNM					74	J2D1	
				MEAN	72.0		73.3					
				S.D.	1.6		1.5					
				N	4		4					

S.D. = STANDARD DEVIATION
 MCV = MEAN CORPUSCULAR VOLUME
 ALL ANIMAL NUMBERS PRECEDED BY 86-
 WC = WBC CONFIRMED
 J1 = SLIGHT ANISOCYTOSIS
 PC = PLATELET CONFIRMED
 D1 = FEW TARGET CELLS

N=NUMBER OF ANIMALS
 CM=CUBIC MICRONS

NM=NORMAL RBC MORPHOLOGY
 D2=SOME TARGET CELLS
 J2=Moderate Anisocytosis

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN MALE DOGS
 PROTOCOL NO. 86P-78

TABLE 4 HEMATOLOGY INDIVIDUAL VALUES

GROUP	SEX	DOSE	ANIMAL NUMBER	DAY-3		DAY 14		DAY 26	
				MCHC	%	COMMENTS	MCHC	%	COMMENTS
1	M	0 PPM	311726	29.4	NM		28	NM	
1	M	0 PPM	311727	28.5	NM		29	NM	
1	M	0 PPM	311728	29.4	NM		30	NM	
1	M	0 PPM	311740	29.0	NM		29	NM	
				MEAN	29.07		29.40		
				S.D.	0.43		0.63		
				N	4		4		

S.D. = STANDARD DEVIATION
 MCHC = MEAN CORPUSCULAR HEMOGLOBIN CONCENTRATION
 ALL ANIMAL NUMBERS PRECEDED BY 86-
 NM = NORMAL RBC MORPHOLOGY

N=NUMBER OF ANIMALS
 %=PERCENT

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN MALE DOGS
 PROTOCOL NO. 86P-78
 REPORT NO. 86R-121

TABLE 4
 HEMATOLOGY
 INDIVIDUAL VALUES

GROUP	SEX	DOSE	ANIMAL NUMBER	DAY -3		DAY 14		DAY 26	
				MCHC	%	COMMENTS	MCHC	%	COMMENTS
2	M	140 PPM	311730	28.5	PCNM	29			
2	M	140 PPM	311736	28.5	NM	29			
2	M	140 PPM	311741	28.5	NM	29			
2	M	140 PPM	311742	29.0	NM	30			
				MEAN	28.63	29.72			
				S.D.	0.25	0.71			
				N	4	4			

S.D. = STANDARD DEVIATION
 MCHC = MEAN CORPUSCULAR HEMOGLOBIN CONCENTRATION
 ALL ANIMAL NUMBERS PRECEDED BY 86-
 PC = PLATELET CONFIRMED
 NM = NORMAL RBC MORPHOLOGY
 N = NUMBER OF ANIMALS
 % = PERCENT

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN MALE DOGS
PROTOCOL NO. 86P-78 REPORT NO. 86R-121

TABLE 4 INDIVIDUAL VALUES HEMATOLOGY

GROUP	SEX	DOSE	ANIMAL NUMBER	DAY-3 MCHC %	COMMENTS	DAY 14 MCHC %	COMMENTS	DAY 26 MCHC %	COMMENTS
3	M	700 PPM	31709	28.6	NM	29	-	-	-
3	M	700 PPM	31729	28.9	NM	28	-	-	-
3	M	700 PPM	31733	28.3	WCNM	29	-	-	-
3	M	700 PPM	31734	28.6	NM	29	-	-	-
				MEAN	28.60	29.22			
				S.D.	0.24	0.51			
				N	4	4			

S. D. = STANDARD DEVIATION
 MCHC = MEAN CORPUSCULAR HEMOGLOBIN CONCENTRATION
 ALL ANIMAL NUMBERS PRECEDED BY 86-
 NM = NORMAL RBC MORPHOLOGY

N=NUMBER OF ANIMALS
%=PERCENT
WBC=WBC CONFIRMED

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN MALE DOGS
 PROTOCOL NO. 86P-78 REPORT ND. 86R-121

TABLE 4 HEMATOLOGY INDIVIDUAL VALUES

GROUP	SEX	DOSE	ANIMAL NUMBER	DAY-3		DAY 14		DAY 26	
				MCHC	% COMMENTS	MCHC	% COMMENTS	MCHC	% COMMENTS
6	M	1400 PPM	31705	28.5	WCNM	-	-	29	J1D2WC
6	M	1400 PPM	31732	26.9	PCNM	-	-	28	J2D1
6	M	1400 PPM	31735	28.4	NM	-	-	30	J1
6	M	1400 PPM	31738	28.4	PCNM	-	-	30	J2D1

MEAN
 S.D.
 N

30.02
 0.90
 4

S.D. = STANDARD DEVIATION
 MCHC = MEAN CORPUSCULAR HEMOGLOBIN CONCENTRATION
 ALL ANIMAL NUMBERS PRECEDED BY 86-
 WC = WBC CONFIRMED
 J1 = SLIGHT ANISOCYTOSIS
 PC = PLATELET CONFIRMED
 D1 = FEW TARGET CELLS

N=NUMBER OF ANIMALS
 %=PERCENT

NM=NORMAL RBC MORPHOLOGY
 D2=SOME TARGET CELLS
 J2=Moderate Anisocytosis

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN MALE DOGS
 PROTOCOL NO. 86P-78 REPORT NO. 86R-121

TABLE 4
 HEMATOLOGY
 INDIVIDUAL VALUES

GROUP	SEX	DOSE	ANIMAL NUMBER	DAY-3 OTHER	COMMENTS	DAY 14 OTHER	COMMENTS	DAY 26 OTHER	COMMENTS
1	M	0 PPM	31726	0		0	NM	-	
1	M	0 PPM	31727	0		0	NM	-	
1	M	0 PPM	31728	0		0	NM	-	
1	M	0 PPM	31740	0		0	NM	-	
MEAN				0.0		0.0			
S.D.				0.0		0.0			
N				4		4			

S.D. = STANDARD DEVIATION
 ALL ANIMAL NUMBERS PRECEDED BY 86-
 NM=NORMAL RBC MORPHOLOGY

N=NUMBER OF ANIMALS

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN MALE DOGS
 PROTOCOL NO. 86P-78 REPORT NO. 86R-121

TABLE 4 HEMATOLOGY INDIVIDUAL VALUES

GROUP	SEX	DOSE	ANIMAL NUMBER	DAY-3 OTHER	COMMENTS	DAY 14 OTHER	COMMENTS	DAY 26 OTHER	COMMENTS
2	M	140 PPM	31730	0		M*		-	
2	M	140 PPM	31736	0		*		-	
2	M	140 PPM	31741	0		*		-	
2	M	140 PPM	31742	0		*		-	
				MEAN	0.0				
				S.D.	0.0				
				N	4				

S.D. = STANDARD DEVIATION
 ALL ANIMAL NUMBERS PRECEDED BY 86-
 * = PARAMETER NOT REQUIRED
 NM = NORMAL RBC MORPHOLOGY

N=NUMBER OF ANIMALS
 PC=PLATELET CONFIRMED

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN MALE DOGS
 PROTOCOL NO. 86P-78
 REPORT NO. 86R-121

TABLE 4
 HEMATOLOGY
 INDIVIDUAL VALUES

GROUP	SEX	DOSE	ANIMAL NUMBER	DAY-3		DAY 14		DAY 26	
				OTHER	COMMENTS	OTHER	COMMENTS	OTHER	COMMENTS
3	M	700 PPM	311709	0		*		*	
3	M	700 PPM	311729	0		*		*	
3	M	700 PPM	311733	0		W*			
3	M	700 PPM	311734	0		*			
				MEAN	0.0	S.D.	0.0	N	4

S.D. = STANDARD DEVIATION
 ALL ANIMAL NUMBERS PRECEDED BY 86-
 * = PARAMETER NOT REQUIRED
 WC = WBC CONFIRMED

N=NUMBER OF ANIMALS
 NM=NORMAL RBC MORPHOLOGY

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN MALE DOGS
PROTOCOL NO. 86P-78 REPORT NO. 86R-121

INDIVIDUAL VALUES
HEMATOLOGY

GROUP	SEX	DOSE	ANIMAL NUMBER	DAY-3 OTHER	DAY 14 OTHER	DAY 26 OTHER	COMMENTS
							COMMENTS
4	M	1400 PPM	31705	0	N	0	J1D2WC
4	M	1400 PPM	31732	0	N	0	J2D1
4	M	1400 PPM	31735	0	N	0	J1
4	M	1400 PPM	31738	0	N	0	J2D1
MEAN				0.0		0.0	N=NUMBER OF ANIMALS
S.D.				0.0		0.0	NN=NORMAL RBC MORPHOLOGY
N				4		4	D2=SOME TARGET CELLS
							J2=MODERATE ANISOCYTOSIS
							PC=PLATELET CONFIRMED
							D1=FEW TARGET CELLS

S.S.D. = STANDARD DEVIATION
ALL ANIMAL NUMBERS PRECEDED BY 86-
WC=WBC CONFIRMED
J1=SLIGHT ANISOCYTOSIS
PC=PLATELET CONFIRMED
D1=FEW TARGET CELLS

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN MALE DOGS
 PROTOCOL NO. 86P-78
 REPORT NO. 86R-121

TABLE 4
 HEMATOLOGY
 INDIVIDUAL VALUES

GROUP	SEX	DOSE	ANIMAL NUMBER	DAY -3		DAY 14		DAY 26	
				NRBC	COMMENTS	NRBC	COMMENTS	NRBC	COMMENTS
1	M	0 PPM	31726	0	NM	0	NM	0	NM
1	M	0 PPM	31727	0	NM	0	NM	0	NM
1	M	0 PPM	31728	0	NM	0	NM	0	NM
1	M	0 PPM	31740	0	NM	0	NM	0	NM
				MEAN	0.0	0.0	0.0	0.0	0.0
				S.D.	0.0	0.0	0.0	0.0	0.0
				N	4	4	4	4	4

S.D. = STANDARD DEVIATION
 NRBC = NUCLEATED RED BLOOD CELLS
 ALL ANIMAL NUMBERS PRECEDED BY 86-
 NM=NORMAL RBC MORPHOLOGY

N=NUMBER OF ANIMALS
 %/1000 RBC = PERCENT PER 1000 RED BLOOD CELLS

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN MALE DOGS
 PROTOCOL NO. 86P-78 REPORT NO. 86R-121

TABLE 4
 HEMATOLOGY
 INDIVIDUAL VALUES

GROUP	SEX	DOSE	ANIMAL NUMBER	DAY-3 NRBC	DAY 14 NRBC	DAY 26 NRBC	COMMENTS	COMMENTS	COMMENTS
2	M	140 PPM	31730	0	PCNM	*			
2	M	140 PPM	31736	0	NM	*			
2	M	140 PPM	31741	0	NM	*			
2	M	140 PPM	31742	0	NM	*			
				MEAN S.D. N	0.0 0.0 4				

S.D. = STANDARD DEVIATION

NRBC = NUCLEATED RED BLOOD CELLS

ALL ANIMAL NUMBERS PRECEDED BY 86-

* = PARAMETER NOT REQUIRED

NM=NORMAL RBC MORPHOLOGY

N=NUMBER OF ANIMALS

%/1000 RBC = PERCENT PER 1000 RED BLOOD CELLS

PC=PLATELET CONFIRMED

RH-5649: TWO-WEEK DIETARY RANGE-FINDING STUDY IN MALE DOGS
 PROTOCOL NO. 86P-78
 REPORT NO. 86R-121

TABLE 4
 HEMATOLOGY
 INDIVIDUAL VALUES

GROUP	SEX	DOSE	ANIMAL NUMBER	DAY-3 NRBC	COMMENTS	DAY 14 NRBC	COMMENTS	DAY 26 NRBC	COMMENTS
3	M	700 PPM	31709	0	NM	*	-	-	-
3	M	700 PPM	31729	0	NM	*	-	-	-
3	M	700 PPM	31733	0	WCNM	*	-	-	-
3	M	700 PPM	31734	0	NM	*	-	-	-
MEAN				0.0					
S.D.				0.0					
N				4					

S.D. = STANDARD DEVIATION
 NRBC = NUCLEATED RED BLOOD CELLS
 ALL ANIMAL NUMBERS PRECEDED BY 86-
 * = PARAMETER NOT REQUIRED
 WC = WBC CONFIRMED

N=NUMBER OF ANIMALS
 %/1000 RBC = PERCENT PER 1000 RED BLOOD CELLS
 NM=NORMAL RBC MORPHOLOGY

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN MALE DOGS
 PROTOCOL NO. 86P-78
 REPORT NO. 86R-121

TABLE 4
 HEMATOLOGY
 INDIVIDUAL VALUES

GROUP	SEX	DOSE	ANIMAL NUMBER	DAY-3		DAY 14		DAY 26	
				NRBC	COMMENTS	NRBC	COMMENTS	NRBC	COMMENTS
6	M	1400 PPM	31705	0	WCNM	-	-	0	J1D2WC
6	M	1400 PPM	31732	0	PCNM	-	-	0	J2D1
6	M	1400 PPM	31735	0	NM	-	-	0	J1
6	M	1400 PPM	31738	0	PCNM	-	-	4	J2D1
				MEAN	0.0	1.0			
				S.D.	0.0	2.0			
				N	4				

S.D. = STANDARD DEVIATION
 NRBC = NUCLEATED RED BLOOD CELLS
 ALL ANIMAL NUMBERS PRECEDED BY 86-
 WC=WBC CONFIRMED
 J1=SLIGHT ANISOCYTOSIS
 PC=PLATELET CONFIRMED
 D1=FEW TARGET CELLS

N=NUMBER OF ANIMALS
 %/1000 RBC = PERCENT PER 1000 RED BLOOD CELLS
 NM=NORMAL RBC MORPHOLOGY
 D2=SOME TARGET CELLS
 J2=Moderate Anisocytosis

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN MALE DOGS
PROTOCOL NO. 86P-078 REPORT NO 86R-121

TABLE 5 CLINICAL CHEMISTRY INDIVIDUAL VALUES

GROUP	SEX	DOSE	ANIMAL NUMBER	DAY 14		DAY 26	
				A/G RATIO	COMMENTS	A/G RATIO	COMMENTS
2	M	140 PPM	31730	1.5		1.4	H1
2	M	140 PPM	31736	1.4		1.3	
2	M	140 PPM	31741	1.5		1.5	
2	M	140 PPM	31742	1.3		1.3	
				MEAN	1.43	1.38	
				S.D.	0.10	0.10	
				N	4	4	

S.D. = STANDARD DEVIATION

A/G = ALBUMIN/GLOBULIN

ALL ANIMAL NUMBERS PRECEDED BY 86-

H1 = SLIGHT HEMOLYSIS

N = NUMBER

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN MALE DOGS
 PROTOCOL NO. 86P-078
 REPORT NO 86R-121

TABLE 5 CLINICAL CHEMISTRY INDIVIDUAL VALUES

GROUP	SEX	DOSE	ANIMAL NUMBER	DAY -3 A/G RATIO	DAY 14 A/G RATIO	DAY 26 A/G RATIO	COMMENTS	COMMENTS
3	M	700 PPM	31709	1.6	-	1.3	H1	-
3	M	700 PPM	31729	1.5	-	1.7	-	-
3	M	700 PPM	31733	1.4	-	1.3	-	-
3	M	700 PPM	31734	1.6	-	1.5	-	-
				MEAN S.D. N	1.53 0.10 4	1.45 0.19 4		

S.D.=STANDARD DEVIATION
 A/G = ALBUMIN/GLOBULIN
 ALL ANIMAL NUMBERS PRECEDED BY 86-
 H1=SLIGHT HEMOLYSIS

N = NUMBER

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN MALE DOGS
 PROTOCOL NO. 86P-078 REPORT NO 86R-121

TABLE 5 CLINICAL CHEMISTRY INDIVIDUAL VALUES

GROUP	SEX	DOSE	ANIMAL NUMBER	DAY -3		DAY 14		DAY 26	
				A/G	RATIO	A/G	RATIO	A/G	RATIO
				COMMENTS	COMMENTS	COMMENTS	COMMENTS	COMMENTS	COMMENTS
6	M	1400 PPM	31705	1.1	-	-	-	1.2	-
6	M	1400 PPM	31732	1.3	-	-	-	1.5	-
6	M	1400 PPM	31735	1.2	-	-	-	1.4	-
6	M	1400 PPM	31738	1.2	-	-	-	1.2	-
				MEAN	1.20	MEAN	1.33	MEAN	1.33
				S.D.	0.08	S.D.	0.15	S.D.	0.15
				N	4	N	4	N	4

S.D. = STANDARD DEVIATION
 A/G = ALBUMIN/GLOBULIN
 ALL ANIMAL NUMBERS PRECEDED BY 86-

N = NUMBER

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN MALE DOGS
 PROTOCOL NO. 86P-078 REPORT NO B6R-121

TABLE 5 CLINICAL CHEMISTRY INDIVIDUAL VALUES

GROUP	SEX	DOSE	ANIMAL NUMBER	DAY -3		DAY 14		DAY 26	
				CHOL MG/DL	COMMENTS	CHOL MG/DL	COMMENTS	CHOL MG/DL	COMMENTS
1	M	0 PPM	31726	150		170			
1	M	0 PPM	31727	149		141			
1	M	0 PPM	31728	193		221			
1	M	0 PPM	31740	145		137			
				MEAN	159.3	167.3			
				S.D.	22.6	38.7			
				N	4	4			

S.D. = STANDARD DEVIATION
 CHOL = CHOLESTEROL
 ALL ANIMAL NUMBERS PRECEDED BY 86-

N = NUMBER
 MG/DL = MILLIGRAMS PER DECILITER

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN MALE DOGS
 PROTOCOL NO. 86P-078
 REPORT NO 86R-121

TABLE 5 CLINICAL CHEMISTRY INDIVIDUAL VALUES

GROUP	SEX	DOSE	ANIMAL NUMBER	DAY -3 COMMENTS	DAY 14 CHOL MG/DL	DAY 26 CHOL MG/DL	COMMENTS
2	M	140 PPM	31730	171	167	H1	-
2	M	140 PPM	31736	171	168	-	-
2	M	140 PPM	31741	186	205	-	-
2	M	140 PPM	31742	203	251	-	-
MEAN			182.8	197.8			
S.D.			15.2	39.7			
N			4	4			

S.D. = STANDARD DEVIATION
 CHOL = CHOLESTEROL
 ALL ANIMAL NUMBERS PRECEDED BY 86-
 H1=SLIGHT HEMOLYSIS

N = NUMBER
 MG/DL = MILLIGRAMS PER DECILITER

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN MALE DOGS
 PROTOCOL NO. 86P-078 REPORT NO 86R-121

TABLE 5 CLINICAL CHEMISTRY INDIVIDUAL VALUES

GROUP	SEX	DOSE	ANIMAL NUMBER	DAY -3		DAY 14		DAY 26	
				CHOL	MG/DL	CHOL	MG/DL	CHOL	MG/DL
3	M	700 PPM	31709	249		230	H1	-	
3	M	700 PPM	31729	181		217	-		
3	M	700 PPM	31733	174		177	-		
3	M	700 PPM	31734	180		168			
				MEAN	196.0	198.0			
				S.D.	35.5	30.1			
				N	4	4			

S.D. = STANDARD DEVIATION
 CHOL = CHOLESTEROL
 ALL ANIMAL NUMBERS PRECEDED BY 86-
 H1 = SLIGHT HEMOLYSIS

N = NUMBER
 MG/DL = MILLIGRAMS PER DECILITER

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN MALE DOGS
 PROTOCOL NO. 86P-078 REPORT NO 86R-121

TABLE 5 CLINICAL CHEMISTRY INDIVIDUAL VALUES

GROUP	SEX	DOSE	ANIMAL NUMBER	DAY -3		DAY 14		DAY 26	
				CHOL	MG/DL	CHOL	MG/DL	CHOL	MG/DL
				COMMENTS	COMMENTS	COMMENTS	COMMENTS		
6	M	1400 PPM	31705	209	-	-	-	298	-
6	M	1400 PPM	31732	146	-	-	-	151	-
6	M	1400 PPM	31735	153	-	-	-	179	-
6	M	1400 PPM	31738	153	-	-	-	200	-
				MEAN	165.3	207.0			
				S.D.	29.4	63.9			
				N	4	4			

S.D. = STANDARD DEVIATION
 CHOL = CHOLESTEROL
 ALL ANIMAL NUMBERS PRECEDED BY 86-

N = NUMBER
 MG/DL = MILLIGRAMS PER DECILITER

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN MALE DOGS
 PROTOCOL NO. 86P-078
 REPORT NO 86R-121

TABLE 5 CLINICAL CHEMISTRY INDIVIDUAL VALUES

GROUP	SEX	DOSE	ANIMAL NUMBER	DAY -3 CREAT MG/DL	DAY 14 CREAT MG/DL	DAY 26 CREAT MG/DL	COMMENTS	COMMENTS
1	M	0 PPM	31726	0.73	0.93	-	-	-
1	M	0 PPM	31727	0.84	0.80	-	-	-
1	M	0 PPM	31728	0.92	0.92	-	-	-
1	M	0 PPM	31740	0.75	0.83	-	-	-
MEAN				0.810	0.870			
S.D.				0.088	0.065			
N				4	4			

S.D. = STANDARD DEVIATION
 CREAT = CREATININE
 ALL ANIMAL NUMBERS PRECEDED BY 86-

N = NUMBER
 MG/DL = MILLIGRAMS PER DECILITER

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN MALE DOGS
 PROTOCOL NO. 86P-076
 REPORT NO 86R-121

TABLE 5 CLINICAL CHEMISTRY INDIVIDUAL VALUES

GROUP	SEX	DOSE	ANIMAL NUMBER	DAY -3		DAY 14		DAY 26	
				CREAT MG/DL	COMMENTS	CREAT MG/DL	COMMENTS	CREAT MG/DL	COMMENTS
2	M	140 PPM	311730	0.77		0.68	H1	-	
2	M	140 PPM	311736	0.82		0.79	-		
2	M	140 PPM	311741	0.83		0.77	-		
2	M	140 PPM	311742	0.75		0.79			
				MEAN	0.793	0.758			
				S.D.	0.039	0.053			
				N	4	4			

S.D.=STANDARD DEVIATION
 CREAT = CREATININE
 ALL ANIMAL NUMBERS PRECEDED BY 86-
 H1=SLIGHT HEMOLYSIS

N = NUMBER
 MG/DL = MILLIGRAMS PER DECILITER

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN MALE DOGS
 PROTOCOL NO. 86P-078
 REPORT NO 86R-121

TABLE 5 CLINICAL CHEMISTRY INDIVIDUAL VALUES

GROUP	SEX	DOSE	ANIMAL NUMBER	DAY -3 A/G RATIO	DAY 14 A/G RATIO	DAY 26 A/G RATIO	COMMENTS	COMMENTS
2	M	140 PPM	31730	1.5		1.4	H1	
2	M	140 PPM	31736	1.4		1.3		
2	M	140 PPM	31741	1.5		1.5		
2	M	140 PPM	31742	1.3		1.3		
				MEAN	1.43	1.38		
				S.D.	0.10	0.10		
				N	4	4		

S.D. = STANDARD DEVIATION

A/G = ALBUMIN/GLOBULIN

ALL ANIMAL NUMBERS PRECEDED BY 86-

H1 = SLIGHT HEMOLYSIS

N = NUMBER

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN MALE DOGS
 PROTOCOL NO. 86P-078 REPORT NO 86R-121

TABLE 5 CLINICAL CHEMISTRY INDIVIDUAL VALUES

GROUP	SEX	DOSE	ANIMAL NUMBER	DAY -3 A/G RATIO	DAY 14 A/G RATIO	DAY 26 A/G RATIO	COMMENTS	COMMENTS
3	M	700 PPM	31709	1.6	-	1.3	H1	-
3	M	700 PPM	31729	1.5	-	1.7	-	-
3	M	700 PPM	31733	1.4	-	1.3	-	-
3	M	700 PPM	31734	1.6	-	1.5	-	-
				MEAN S.D. N	1.53 0.10 4	1.45 0.19 4		

S.D. = STANDARD DEVIATION
 A/G = ALBUMIN/GLOBULIN
 ALL ANIMAL NUMBERS PRECEDED BY 86-
 H1 = SLIGHT HEMOLYSIS

N = NUMBER

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN MALE DOGS
 PROTOCOL NO. 86P-078
 REPORT NO 86R-121

TABLE 5 CLINICAL CHEMISTRY INDIVIDUAL VALUES

GROUP	SEX	DOSE	ANIMAL NUMBER	DAY -3		DAY 14		DAY 26	
				A/G RATIO	COMMENTS	A/G RATIO	COMMENTS	A/G RATIO	COMMENTS
6	M	1400 PPM	31705	1.1		-		1.2	
6	M	1400 PPM	31732	1.3		-		1.5	
6	M	1400 PPM	31735	1.2		-		1.4	
6	M	1400 PPM	31738	1.2		-		1.2	
				MEAN	1.20	1.33			
				S.D.	0.08	0.15			
				N	4	4			

S.D. = STANDARD DEVIATION

A/G = ALBUMIN/GLOBULIN
 ALL ANIMAL NUMBERS PRECEDED BY 86-

N = NUMBER

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN MALE DOGS
 PROTOCOL NO. 86P-078 REPORT NO 86R-121

TABLE 5 CLINICAL CHEMISTRY INDIVIDUAL VALUES

GROUP	SEX	DOSE	ANIMAL NUMBER	DAY -3		DAY 14		DAY 26	
				CHOL	MG/DL	CHOL	MG/DL	CHOL	MG/DL
				COMMENTS		COMMENTS		COMMENTS	
1	M	0 PPM	311726		150		170		
1	M	0 PPM	311727		149		141		
1	M	0 PPM	311728		193		221		
1	M	0 PPM	311740		145		137		
				MEAN	159.3		167.3		
				S.D.	22.6		38.7		
				N	4		4		

S.D. = STANDARD DEVIATION

CHOL = CHOLESTEROL
 ALL ANIMAL NUMBERS PRECEDED BY 86-

N = NUMBER
 MG/DL = MILLIGRAMS PER DECILITER

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN MALE DOGS
 PROTOCOL NO. 86P-078
 REPORT NO 86R-121

TABLE 5 CLINICAL CHEMISTRY INDIVIDUAL VALUES

GROUP	SEX	DOSE	ANIMAL NUMBER	DAY -3 CHOL MG/DL COMMENTS	DAY 14 CHOL MG/DL COMMENTS	DAY 26 CHOL MG/DL COMMENTS
2	M	140 PPM	31730	171	167	H1
2	M	140 PPM	31736	171	168	-
2	M	140 PPM	31741	186	205	-
2	M	140 PPM	31742	203	251	-
		MEAN	192.8	197.8		
		S.D.	15.2	39.7		
		N	4	4		

S.D. = STANDARD DEVIATION

CHOL = CHOLESTEROL

ALL ANIMAL NUMBERS PRECEDED BY 86-

H1 = SLIGHT HEMOLYSIS

N = NUMBER
 MG/DL = MILLIGRAMS PER DECILITER

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN MALE DOGS
 PROTOCOL NO. 86P-078 REPORT NO B6R-121

TABLE 5 CLINICAL CHEMISTRY INDIVIDUAL VALUES

GROUP	SEX	DOSE	ANIMAL NUMBER	DAY -3		DAY 14		DAY 26	
				CHOL MG/DL	COMMENTS	CHOL MG/DL	COMMENTS	CHOL MG/DL	COMMENTS
3	M	700 PPM	31709	249		230	H1	-	
3	M	700 PPM	31729	181		217	-	-	
3	M	700 PPM	31733	174		177	-	-	
3	M	700 PPM	31734	180		168			
				MEAN	196.0	198.0			
				S.D.	35.5	30.1			
				N	4	4			

S.D. = STANDARD DEVIATION
 CHOL = CHOLESTEROL
 ALL ANIMAL NUMBERS PRECEDED BY 86-
 H1 = SLIGHT HEMOLYSIS

N = NUMBER
 MG/DL = MILLIGRAMS PER DECILITER

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN MALE DOGS
 PROTOCOL NO. 86P-078 REPORT NO 86R-121

TABLE 5 CLINICAL CHEMISTRY INDIVIDUAL VALUES

GROUP	SEX	DOSE	ANIMAL NUMBER	DAY -3		DAY 14		DAY 26	
				CHOL MG/DL	COMMENTS	CHOL MG/DL	COMMENTS	CHOL MG/DL	COMMENTS
6	M	1400 PPM	31705	209	-	-	-	298	-
6	M	1400 PPM	31732	146	-	-	-	151	-
6	M	1400 PPM	31735	153	-	-	-	179	-
6	M	1400 PPM	31738	153	-	-	-	200	-
				MEAN	165.3	207.0			
				S.D.	29.4	63.9			
				N	4	4			

S.D. = STANDARD DEVIATION
 CHOL = CHOLESTEROL
 ALL ANIMAL NUMBERS PRECEDED BY 86-

N = NUMBER
 MG/DL = MILLIGRAMS PER DECILITER

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN MALE DOGS
 PROTOCOL NO. 86P-078
 REPORT NO 86R-121

TABLE 5 CLINICAL CHEMISTRY INDIVIDUAL VALUES

GROUP	SEX	DOSE	ANIMAL NUMBER	DAY -3		DAY 14		DAY 26	
				CREAT MG/DL	COMMENTS	CREAT MG/DL	COMMENTS	CREAT MG/DL	COMMENTS
1	M	0 PPM	31726	0.73		0.93		-	
1	M	0 PPM	31727	0.84		0.80		-	
1	M	0 PPM	31728	0.92		0.92		-	
1	M	0 PPM	31740	0.75		0.83		-	
				MEAN	0.810	0.870			
				S.D.	0.088	0.065			
				N	4	4			

S.D. = STANDARD DEVIATION
 CREAT = CREATININE
 ALL ANIMAL NUMBERS PRECEDED BY 86-

N = NUMBER
 MG/DL = MILLIGRAMS PER DECILITER

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN MALE DOGS
 PROTOCOL NO. 86P-078
 REPORT NO. 86R-121

TABLE 5 CLINICAL CHEMISTRY INDIVIDUAL VALUES

GROUP	SEX	DOSE	ANIMAL NUMBER	DAY -3		DAY 14		DAY 26	
				CREAT MG/DL	COMMENTS	CREAT MG/DL	COMMENTS	CREAT MG/DL	COMMENTS
2	M	140 PPM	31730	0.77		0.68	H1	-	
2	M	140 PPM	31736	0.82		0.79	-	-	
2	M	140 PPM	31741	0.83		0.77	-	-	
2	M	140 PPM	31742	0.75		0.79	-	-	
				MEAN	0.793	0.758			
				S.D.	0.039	0.053			
				N	4	4			

S.D. = STANDARD DEVIATION
 CREAT = CREATININE
 ALL ANIMAL NUMBERS PRECEDED BY 86-
 H1 = SLIGHT HEMOLYSIS

N = NUMBER
 MG/DL = MILLIGRAMS PER DECILITER

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN MALE DOGS
 PROTOCOL NO. 86P-078
 REPORT NO 86R-121

TABLE 5
 CLINICAL CHEMISTRY
 INDIVIDUAL VALUES

GROUP	SEX	DOSE	ANIMAL NUMBER	DAY -3		DAY 14		DAY 26	
				CREAT MG/DL	COMMENTS	CREAT MG/DL	COMMENTS	CREAT MG/DL	COMMENTS
3	M	700 PPM	31709	0.80		0.62	H1	-	
3	M	700 PPM	31729	0.90		0.81		-	
3	M	700 PPM	31733	0.79		0.74		-	
3	M	700 PPM	31734	0.66		0.70		-	
				MEAN	0.788	0.718			
				S.D.	0.098	0.079			
				N	4	4			

S.D. = STANDARD DEVIATION
 CREAT = CREATINE
 ALL ANIMAL NUMBERS PRECEDED BY 86-
 H1 = SLIGHT HEMOLYSIS

N = NUMBER
 MG/DL = MILLIGRAMS PER DECILITER

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN MALE DOGS
 PROTOCOL NO. 86P-078

TABLE 5 CLINICAL CHEMISTRY INDIVIDUAL VALUES

GROUP	SEX	DOSE	ANIMAL NUMBER	DAY -3		DAY 14		DAY 26	
				CREAT	MG/DL	CREAT	MG/DL	CREAT	MG/DL
6	M	1400 PPM	31705	0.88		-		0.85	
6	M	1400 PPM	31732	0.69		-		0.82	
6	M	1400 PPM	31735	0.70		-		0.67	
6	M	1400 PPM	31738	0.70		-		0.78	
				MEAN	0.743			0.780	
				S.D.	0.092			0.079	
				N	4				4

S.D. = STANDARD DEVIATION
 CREAT = CREATININE
 ALL ANIMAL NUMBERS PRECEDED BY 86-

N = NUMBER
 MG/DL = MILLIGRAMS PER DECILITER

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN MALE DOGS
 PROTOCOL NO. 86P-078 REPORT NO 86R-121

TABLE 5 CLINICAL CHEMISTRY INDIVIDUAL VALUES

GROUP	SEX	DOSE	ANIMAL NUMBER	DAY -3		DAY 14		DAY 26	
				CA++ MG/DL	COMMENTS	CA++ MG/DL	COMMENTS	CA++ MG/DL	COMMENTS
1	M	0 PPM	31726	11.2		11.0		-	
1	M	0 PPM	31727	11.0		11.0		-	
1	M	0 PPM	31728	10.9		11.0		-	
1	M	0 PPM	31740	10.9		11.2		-	
				MEAN	11.00	11.05			
				S.D.	0.14	0.10			
				N	4	4			

S.D. = STANDARD DEVIATION

CA++ = CALCIUM

ALL ANIMAL NUMBERS PRECEDED BY 86-

N = NUMBER
 MG/DL = MILLIGRAMS PER DECILITER

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN MALE DOGS
 PROTOCOL NO. 86P-078
 REPORT NO 86R-121

TABLE 5 CLINICAL CHEMISTRY INDIVIDUAL VALUES

GROUP	SEX	DOSE	ANIMAL NUMBER	DAY -3		DAY 14		DAY 26	
				CA++ MG/DL	COMMENTS	CA++ MG/DL	COMMENTS	CA++ MG/DL	COMMENTS
2	M	140 PPM	31730	11.1		11.0	H1	-	
2	M	140 PPM	31736	11.1		11.2		-	
2	M	140 PPM	31741	10.9		11.1		-	
2	M	140 PPM	31742	11.3		10.9		-	
				MEAN	11.10	11.05			
				S.D.	0.16	0.13			
				N	4	4			

S.D. = STANDARD DEVIATION

CA++

= CALCIUM

ALL ANIMAL NUMBERS PRECEDED BY 86-

H1 = SLIGHT HEMOLYSIS

N = NUMBER
 MG/DL = MILLIGRAMS PER DECILITER

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN MALE DOGS
 PROTOCOL NO. 86P-078 REPORT NO 86R-121

TABLE 5 CLINICAL CHEMISTRY INDIVIDUAL VALUES

GROUP	SEX	DOSE	ANIMAL NUMBER	DAY -3		DAY 14		DAY 26	
				CA++ MG/DL	COMMENTS	CA++ MG/DL	COMMENTS	CA++ MG/DL	COMMENTS
3	M	700 PPM	311709	11.3		11.2	H1	-	
3	M	700 PPM	311729	11.1		10.8	-	-	
3	M	700 PPM	311733	11.1		10.5	-	-	
3	M	700 PPM	311734	12.2		11.2			
				MEAN	11.43	10.93			
				S.D.	0.53	0.34			
				N	4	4			

S.D. = STANDARD DEVIATION

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ALL ANIMAL NUMBERS PRECEDED BY 86-
 H1 = SLIGHT HEMOLYSIS

N = NUMBER
 MG/DL = MILLIGRAMS PER DECILITER

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN MALE DOGS
 PROTOCOL NO. 86P-078 REPORT NO 86R-121

TABLE 5 CLINICAL CHEMISTRY INDIVIDUAL VALUES

GROUP	SEX	DOSE	ANIMAL NUMBER	DAY -3		DAY 14		DAY 26	
				CA++ MG/DL	COMMENTS	CA++ MG/DL	COMMENTS	CA++ MG/DL	COMMENTS
6	M	1400 PPM	311705	11.0		-		11.2	
6	M	1400 PPM	311732	11.0		-		11.4	
6	M	1400 PPM	311735	11.0		-		10.9	
6	M	1400 PPM	311738	11.0		-		11.6	
				MEAN	11.00			11.28	
				S.D.	0.00			0.30	
				N	4			4	

S.D. = STANDARD DEVIATION

CA++ = CALCIUM

ALL ANIMAL NUMBERS PRECEDED BY 86-

N = NUMBER
 MG/DL = MILLIGRAMS PER DECILITER

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN MALE DOGS
 PROTOCOL NO. 86P-078
 REPORT NO 86R-121

TABLE 5 CLINICAL CHEMISTRY INDIVIDUAL VALUES

GROUP	SEX	DOSE	ANIMAL NUMBER	DAY -3		DAY 14		DAY 26	
				GGT U/L	COMMENTS	GGT U/L	COMMENTS	GGT U/L	COMMENTS
1	M	0 PPM	31726	4		3		-	
1	M	0 PPM	31727	2		0		-	
1	M	0 PPM	31728	0		0		-	
1	M	0 PPM	31740	0		0		-	
				MEAN	1.5	0.8			
				S.D.	1.9	1.5			
				N	4	4			

S.D. = STANDARD DEVIATION
 GGT = GAMMA GLUTAMYL TRANSFERASE
 ALL ANIMAL NUMBERS PRECEDED BY 86-

N = NUMBER
 U/L = UNITS PER LITER

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN MALE DOGS
 PROTOCOL NO. 86P-078
 REPORT NO 86R-121

TABLE 5 CLINICAL CHEMISTRY INDIVIDUAL VALUES

GROUP	SEX	DOSE	ANIMAL NUMBER	DAY 3 GGT U/L	COMMENTS	DAY 14 GGT U/L	COMMENTS	DAY 26 GGT U/L	COMMENTS
2	M	140 PPM	31730	0		0		H1	
2	M	140 PPM	31736	0		0			
2	M	140 PPM	31741	0		0			
2	M	140 PPM	31742	0		3			
				MEAN S.D. N	0.0 0.0 4	0.8 1.5 4			

S.D. = STANDARD DEVIATION
 GGT = GAMMA GLUTAMYL TRANSFERASE
 ALL ANIMAL NUMBERS PRECEDED BY 86-
 H1 = SLIGHT HEMOLYSIS

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 U/L = UNITS PER LITER

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN MALE DOGS
 PROTOCOL NO. 86P-078
 REPORT NO 86R-121

TABLE 5 CLINICAL CHEMISTRY INDIVIDUAL VALUES

GROUP	SEX	DOSE	ANIMAL NUMBER	DAY -3 GGT U/L COMMENTS	DAY 14 GGT U/L COMMENTS	DAY 26 GGT U/L COMMENTS
3	M	700 PPM	311709	3	0	H1
3	M	700 PPM	311729	4	3	-
3	M	700 PPM	311733	4	2	-
3	M	700 PPM	311734	2	3	-
				MEAN	3.3	2.0
				S.D.	1.0	1.4
				N	4	4

S.D. = STANDARD DEVIATION

GGT = GAMMA GLUTAMYL TRANSFERASE
 ALL ANIMAL NUMBERS PRECEDED BY 86-
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RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN MALE DOGS
 PROTOCOL NO. 86P-078

REPORT NO 86R-121
 TABLE 5 CLINICAL CHEMISTRY INDIVIDUAL VALUES

GROUP	SEX	DOSE	ANIMAL NUMBER	DAY -3 GGT U/L	DAY 14 GGT U/L	DAY 26 GGT U/L
				COMMENTS	COMMENTS	COMMENTS
6	M	1400 PPM	31705	4	-	0
6	M	1400 PPM	31732	0	-	0
6	M	1400 PPM	31735	0	-	0
6	M	1400 PPM	31738	0	-	0
				MEAN	1.0	0.0
				S.D.	2.0	0.0
				N	4	4

S.D. = STANDARD DEVIATION
 GGT = GAMMA GLUTAMYL TRANSFERASE
 ALL ANIMAL NUMBERS PRECEDED BY 86-

N = NUMBER
 U/L = UNITS PER LITER

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN MALE DOGS
 PROTOCOL NO. 86P-078
 REPORT NO 86R-121

TABLE 5 CLINICAL CHEMISTRY INDIVIDUAL VALUES

GROUP NUMBER	SEX	DOSE	ANIMAL	DAY -3		DAY 14		DAY 26	
				PHOS MG/DL	COMMENTS	PHOS MG/DL	COMMENTS	PHOS MG/DL	COMMENTS
1	M	0 PPM	31726	5.9		5.2		5.2	
1	M	0 PPM	31727	6.4		6.3		6.3	
1	M	0 PPM	31728	6.0		5.5		5.5	
1	M	0 PPM	31740	5.9		5.3		5.3	
				MEAN	6.05	5.58			
				S.D.	0.24	0.50			
				N	4	4			

S.D. = STANDARD DEVIATION
 PHOS = INORGANIC PHOSPHORUS
 ALL ANIMAL NUMBERS PRECEDED BY 86-

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 MG/DL = MILLIGRAMS PER DECILITER

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN MALE DOGS
 PROTOCOL NO. 86P-078
 REPORT NO 86R-121

TABLE 5 CLINICAL CHEMISTRY INDIVIDUAL VALUES

GROUP NUMBER	SEX	DOSE	ANIMAL	DAY -3		DAY 14		DAY 26	
				PHOS MG/DL	COMMENTS	PHOS MG/DL	COMMENTS	PHOS MG/DL	COMMENTS
2	M	140 PPM	31730	5.4		4.9	H1	-	
2	M	140 PPM	31736	7.1		5.8		-	
2	M	140 PPM	31741	6.4		5.6		-	
2	M	140 PPM	31742	6.4		5.4		-	
				MEAN	6.33	5.48			
				S.D.	0.70	0.43			
				N	4	4			

S.D. = STANDARD DEVIATION
 PHOS = INORGANIC PHOSPHORUS
 ALL ANIMAL NUMBERS PRECEDED BY 86-
 H1=SLIGHT HEMOLYSIS

N = NUMBER
 MG/DL = MILLIGRAMS PER DECILITER

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN MALE DOGS
PROTOCOL NO. 86P-078
REPORT NO. 86R-121

TABLE 5 CLINICAL CHEMISTRY INDIVIDUAL VALUES

GROUP NUMBER	SEX	DOSE	ANIMAL NUMBER	DAY -3		DAY 14		DAY 26	
				PHOS MG/DL	COMMENTS	PHOS MG/DL	COMMENTS	PHOS MG/DL	COMMENTS
3	M	700 PPM	311709	6.2		5.6	H1	-	
3	M	700 PPM	311729	5.7		5.6		-	
3	M	700 PPM	311733	6.8		5.6		-	
3	M	700 PPM	311734	6.9		5.6		-	
				MEAN	6.40	5.60			
				S.D.	0.56	0.00			
				N	4	4			

S.D. = STANDARD DEVIATION

PHOS = INORGANIC PHOSPHORUS

ALL ANIMAL NUMBERS PRECEDED BY 86-

H1=SLIGHT HEMOLYSIS

N = NUMBER
MG/DL = MILLIGRAMS PER DECILITER

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN MALE DOGS
 PROTOCOL NO. 86P-078
 REPORT NO 86R-121

TABLE 5 CLINICAL CHEMISTRY INDIVIDUAL VALUES

GROUP NUMBER	SEX	DOSE	ANIMAL	DAY -3		DAY 14		DAY 26	
				PHOS MG/DL	COMMENTS	PHOS MG/DL	COMMENTS	PHOS MG/DL	COMMENTS
6	M	1400 PPM	31705	5.3	-	4.9	-	4.9	-
6	M	1400 PPM	31732	6.2	-	4.9	-	4.9	-
6	M	1400 PPM	31735	6.5	-	5.7	-	5.7	-
6	M	1400 PPM	31738	6.8	-	-	-	-	-
				MEAN	6.20	5.30			
				S.D.	0.65	0.46			
				N	4	4			

S.D. = STANDARD DEVIATION
 PHOS = INORGANIC PHOSPHORUS
 ALL ANIMAL NUMBERS PRECEDED BY 86-

N = NUMBER
 MG/DL = MILLIGRAMS PER DECILITER

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN MALE DOGS
 PROTOCOL NO. 86P-078
 REPORT NO 86R-121

TABLE 5
 CLINICAL CHEMISTRY
 INDIVIDUAL VALUES

GROUP	SEX	DOSE	ANIMAL NUMBER	DAY -3		DAY 14		DAY 26	
				TBILI MG/DL	COMMENTS	TBILI MG/DL	COMMENTS	TBILI MG/DL	COMMENTS
1	M	0 PPM	31726	0.25		0.18		-	
1	M	0 PPM	31727	0.26		0.20		-	
1	M	0 PPM	31728	0.28		0.26		-	
1	M	0 PPM	31740	0.33		0.41		-	
				MEAN	0.280	0.263			
				S.D.	0.036	0.104			
				N	4	4			

S.D. = STANDARD DEVIATION
 TBILI = TOTAL BILIRUBIN
 ALL ANIMAL NUMBERS PRECEDED BY 86-

N = NUMBER
 MG/DL = MILLIGRAMS PER DECILITER

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN MALE DOGS
 PROTOCOL NO. 86P-078
 REPORT NO 86R-121

TABLE 5 CLINICAL CHEMISTRY INDIVIDUAL VALUES

GROUP	SEX	DOSE	ANIMAL NUMBER	DAY -3		DAY 14		DAY 26	
				TBIL	MG/DL	TBIL	MG/DL	TBIL	MG/DL
				COMMENTS		COMMENTS		COMMENTS	
2	M	140 PPM	31730	0.20		0.49	H1	-	
2	M	140 PPM	31736	0.12		0.37		-	
2	M	140 PPM	31741	0.24		0.29		-	
2	M	140 PPM	31742	0.33		0.36		-	
				MEAN	0.223	0.378			
				S.D.	0.087	0.083			
				N	4	4			

S.D. = STANDARD DEVIATION
 TBILI = TOTAL BILIRUBIN
 ALL ANIMAL NUMBERS PRECEDED BY 86-
 H1 = SLIGHT HEMOLYSIS

N = NUMBER
 MG/DL = MILLIGRAMS PER DECILITER

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN MALE DOGS
 PROTOCOL NO. 86P-078 REPORT NO 86R-121

TABLE 5 CLINICAL CHEMISTRY INDIVIDUAL VALUES

GROUP	SEX	DOSE	ANIMAL NUMBER	DAY -3		DAY 14		DAY 26	
				TBILI MG/DL	COMMENTS	TBILI MG/DL	COMMENTS	TBILI MG/DL	COMMENTS
3	M	700 PPM	31709	0.22		0.78	H1	-	
3	M	700 PPM	31729	0.34		0.37	-	-	
3	M	700 PPM	31733	0.23		0.19	-	-	
3	M	700 PPM	31734	0.30		0.28	-	-	
				MEAN	0.273	0.405			
				S.D.	0.057	0.261			
				N	4	4			

S.D. = STANDARD DEVIATION
 TBILI = TOTAL BILIRUBIN
 ALL ANIMAL NUMBERS PRECEDED BY 86-
 H1 = SLIGHT HEMOLYSIS

N = NUMBER
 MG/DL = MILLIGRAMS PER DECILITER

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN MALE DOGS
 PROTOCOL NO. 86P-078 REPORT NO. 86R-121

TABLE 5 CLINICAL CHEMISTRY INDIVIDUAL VALUES

GROUP	SEX	DOSE	ANIMAL NUMBER	DAY -3		DAY 14		DAY 26	
				TBIL	MG/DL	TBIL	MG/DL	TBIL	MG/DL
				COMMENTS	COMMENTS	COMMENTS	COMMENTS	COMMENTS	COMMENTS
6	M	1400 PPM	31705	0.16	-	-	-	0.59	-
6	M	1400 PPM	31732	0.35	-	-	-	0.52	-
6	M	1400 PPM	31735	0.25	-	-	-	0.49	-
6	M	1400 PPM	31738	0.24	-	-	-	0.62	-
				MEAN	0.250	MEAN	0.555		
				S.D.	0.078	S.D.	0.060		
				N	4	N	4		

S.D. = STANDARD DEVIATION
 TBILI = TOTAL BILIRUBIN
 ALL ANIMAL NUMBERS PRECEDED BY 86-

N = NUMBER
 MG/DL = MILLIGRAMS PER DECILITER

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN
 MALE DOGS REPORT NO. 86R-121
 PROTOCOL NO. 86P-78 INDIVIDUAL HEART RATE
 (BEATS/MINUTE)
 TABLE 6

GROUP - 1	DOSE - 0 PPM	-DAY-			
ANIMAL NO.	-14	-7	0	7	17
31726	88.0	116.0	112.0	100.0	100.0
31727	128.0	116.0	152.0	132.0	108.0
31728	144.0	128.0	120.0	168.0	116.0
31740	144.0	132.0	112.0	96.0	104.0
MEAN	126.0	123.0	124.0	124.0	107.0
S.D.	26.4	8.2	19.0	33.5	6.8
N	4	4	4	4	4

S.D. - STANDARD DEVIATION N - NUMBER
 V - VERIFIED

ALL ANIMAL NUMBERS PRECEDED BY 86-

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN
 MALE DOGS
 PROTOCOL NO. 86P-78 REPORT NO. 86R-121
 INDIVIDUAL HEART RATE
 (BEATS/MINUTE)
 TABLE 6

GROUP - 2	DOSE - 140 PPM		-7	0	-DAY-	7	17	21
ANIMAL NO.								
31730	116.0	108.0	100.0	104.0		104.0		
31736	108.0	124.0	120.0	112.0		108.0		
31741	144.0	132.0	128.0	160.0		112.0		
31742	132.0	112.0	136.0	160.0		116.0		
MEAN	125.0	119.0	121.0	134.0		110.0		
S.D.	16.1	11.0	15.4	30.2		5.2		
N	4	4	4	4		4		

S.D. - STANDARD DEVIATION
 V - VERIFIED

ALL ANIMAL NUMBERS PRECEDED BY 86-

N - NUMBER

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN
 MALE DOGS
 PROTOCOL NO. 86P-78 REPORT NO. 86R-121
 INDIVIDUAL HEART RATE
 (BEATS/MINUTE)
 TABLE 6

GROUP - 3	DOSE - 700 PPM	-DAY-	0	7	17	21
ANIMAL NO.		-14	-7			
31709	100.0	100.0	100.0	108.0	100.0	100.0
31729	100.0	128.0	120.6	120.0	112.0	112.0
31733	144.0	112.0	120.0	132.0	108.0	108.0
31734	160.0	164.0	160.2	160.0	142.0	142.0
MEAN	126.0	126.0	125.0	130.0	115.5	115.5
S.D.	30.7	27.8	25.2	22.3	18.4	18.4
N	4	4	4	4	4	4

S.D. - STANDARD DEVIATION

V - VERIFIED

N - NUMBER

ALL ANIMAL NUMBERS PRECEDED BY 86-

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN
 MALE DOGS REPORT NO. 86R-121
 PROTOCOL NO. 86P-78 INDIVIDUAL HEART RATE
 (BEATS/MINUTE)
 TABLE 6

GROUP - 4*	DOSE - 3500 PPM	-DAY-	0	7	17	21
ANIMAL NO.		-7				
31705	140.0	128.0				
31714	152.0	208.0				
31732	128.0	156.0				
31737	140.0	120.0				
MEAN	140.0	153.0				
S.D.	9.8	39.8				
N	4	4				

S.D. - STANDARD DEVIATION

V - VERIFIED

N - NUMBER

ALL ANIMAL NUMBERS PRECEDED BY 86-

* - SURVIVORS OF GROUPS 4 AND 5 WERE COMBINED ON DAY 10 TO FORM GROUP 6

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN
 MALE DOGS REPORT NO. 86R-121
 PROTOCOL NO. 86P-78 INDIVIDUAL HEART RATE
 (BEATS/MINUTE)
 TABLE 6

GROUP - 5*	DOSE - 7000 PPM	-DAY-	0	7	17	21
ANIMAL NO.		-14	-7			
31731	124.0		136.0			
31735	148.0		152.0			
31738	160.0		124.0			
31743	120.0		120.0			
MEAN	138.0		133.0			
S.D.	19.2		14.4			
N	.4		.4			

S.D. - STANDARD DEVIATION

V - VERIFIED

N - NUMBER

ALL ANIMAL NUMBERS PRECEDED BY 86-

* - SURVIVORS OF GROUPS 4 AND 5 WERE COMBINED ON DAY 10 OF THE STUDY TO FORM GROUP 6

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN
 MALE DOGS REPORT NO. 86R-121
 PROTOCOL NO. 86P-78
 INDIVIDUAL HEART RATE
 (BEATS/MINUTE)
 TABLE 6

GROUP - 6*	DOSE - 1400 PPM	-7	0	7	17	21
ANIMAL NO.						
31705	-	-	-	140.0	108.0	136.0
31732	-	-	-	112.0	116.0	120.0
31735	-	-	-	140.0	112.0	120.0
31738	-	-	-	140.0	120.0	144.0
31743	-	-	-	120.0	-	-
MEAN				130.4	114.0	130.0
S.D.				13.4	5.2	12.0
N				5	4	4

S.D. - STANDARD DEVIATION
 V - VERIFIED

ALL ANIMAL NUMBERS PRECEDED BY 86-

N - NUMBER

* - GROUP 6 FORMED BY COMBINING SURVIVORS OF GROUPS 4 AND 5; TREATMENT INITIATED ON DAY 10 OF THE STUDY

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN
 MALE DOGS REPORT NO. 86R-121
 PROTOCOL NO. 86P-78
 INDIVIDUAL BODY TEMPERATURE
 (CENTIGRADE)
 TABLE 7

GROUP - 1	DOSE -0 PPM	-DAY-	0	7	17	21
ANIMAL NO.		-7				
31726	36.0	36.0	36.5	36.5	36.0	36.0
31727	37.0	37.0	37.0	37.0	37.0	36.0
31728	36.0	36.0	37.0	38.0	38.0	38.0
31740	36.0	37.0	37.0	39.0	37.0	37.0
MEAN	36.3	36.5	36.9	37.6	36.8	
S.D.	0.5	0.6	0.3	1.1	1.0	
N	4	4	4	4	4	

S.D. - STANDARD DEVIATION
 V - VERIFIED

N - NUMBER

ALL ANIMAL NUMBERS PRECEDED BY 86-

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN
 MALE DOGS REPORT NO. 86R-121
 PROTOCOL NO. 86P-78
 INDIVIDUAL BODY TEMPERATURE
 (CENTIGRADE)
 TABLE 7

GROUP - 2	DOSE - 140 PPM	-7	0	-DAY-	7	17	21
ANIMAL NO.							
31730	36.0	36.0	36.9	37.0	38.0		
31736	36.0	36.0	36.0	37.0	36.0		
31741	36.0	37.0	36.2	36.0	36.0		
31742	36.0	36.0	36.2	36.0	37.0		
MEAN	36.0	36.3	36.3	36.5	36.8		
S.D.	0.0	0.5	0.4	0.6	1.0		
N	4	4	4	4	4		

S.D. - STANDARD DEVIATION

V - VERIFIED

N - NUMBER

ALL ANIMAL NUMBERS PRECEDED BY 86-

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN
 MALE DOGS
 PROTOCOL NO. 86P-78 REPORT NO. 86R-121
 INDIVIDUAL BODY TEMPERATURE
 (CENTIGRADE)
 TABLE 7

GROUP - 3	DOSE - 700 PPM	-7	0	-DAY-	7	17	21
ANIMAL NO.							
311709	36.0	36.0	37.0		36.5	37.0	
311729	36.0	36.0	36.6		37.0	37.0	
311733	37.0	35.0	36.0		36.5	37.0	
311734	37.0	38.0	37.2		36.0	38.0	
MEAN	36.5	36.3	36.7		37.0	37.3	
S.D.	0.6	1.3	0.5		0.7	0.5	
N	4	4	4		4	4	

S.D. - STANDARD DEVIATION

V - VERIFIED

N - NUMBER

ALL ANIMAL NUMBERS PRECEDED BY 86-

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN
 MALE DOGS REPORT NO. 86R-121
 PROTOCOL NO. 86P-78 INDIVIDUAL BODY TEMPERATURE
 (CENTIGRADE)

TABLE 7

GROUP - 4*	DOSE - 3500 PPM	-DAY-	21
ANIMAL NO.		0	17
	-14	-7	
31705	37.0	36.0	
31714	38.0	37.0	
31732	36.0	36.0	
31737	37.0	36.0	
MEAN	37.0	36.3	
S.D.	0.8	0.5	
N	4	4	

S.D. - STANDARD DEVIATION

V - VERIFIED

N - NUMBER

ALL ANIMAL NUMBERS PRECEDED BY 86-

* - SURVIVORS OF GROUPS 4 AND 5 WERE COMBINED ON DAY 10 TO FORM GROUP 6

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN
 MALE DOGS REPORT NO. 86R-121
 PROTOCOL NO. 86P-78 INDIVIDUAL BODY TEMPERATURE
 (CENTIGRADE)
 TABLE 7

GROUP - 5*	DOSE - 7000 PPM	-DAY-			
ANIMAL NO.	-14	-7	0	7	17
31731	36.0	36.0	-	-	-
31735	37.0	35.5	-	-	-
31738	36.0	36.5	-	-	-
31743	37.0	37.0	-	-	-
MEAN	36.5	36.3			
S.D.	0.6	0.6			
N	4	4			

S.D. - STANDARD DEVIATION

V - VERIFIED

ALL ANIMAL NUMBERS PRECEDED BY 86-

N - NUMBER

* - SURVIVORS OF GROUPS 4 AND 5 WERE COMBINED ON DAY 10 OF THE STUDY TO FORM GROUP 6

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN
 MALE DOGS
 PROTOCOL NO. 86P-78 REPORT NO. 86R-121
 INDIVIDUAL BODY TEMPERATURE
 (CENTIGRADE)
 TABLE 7

GROUP - 6*	DOSE - 1400 PPM	-DAY-			N - NUMBER
		-7	0	7	
ANIMAL NO.	-14				
31705	-	-	37.0	38.0	36.0
31732	-	-	37.0	37.0	37.0
31735	-	-	36.0	37.0	37.0
31738	-	-	37.0	37.0	36.0
31743	-	-	37.0	-	-
MEAN		36.8	37.3	36.5	
S.D.		0.4	0.5	0.6	
N					

S.D. - STANDARD DEVIATION
 V - VERIFIED

ALL ANIMAL NUMBERS PRECEDED BY 86-

* - GROUP 6 FORMED BY COMBINING SURVIVORS OF GROUPS 4 AND 5; TREATMENT INITIATED ON DAY 10 OF THE STUDY

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN
 MALE DOGS REPORT NO. 86R-121
 PROTOCOL NO. 86P-78
 Organ Weights Individual Animal Summary Report
 Group 1
 0 ppm
 Table 8

Animal ID	Terminal Body Wt (G)	Heart		Liver		Spleen		Kidney	
		Weight (G)	% of Bdywt						
86-31726	8580.0	.71.370	.832	281.830	3.28	24.760	.289	41.250	.481
86-31727	7787.0	.71.870	.923	262.400	3.37	18.120	.233	40.520	.520
86-31728	7285.0	.68.970	.947	254.180	3.49	22.230	.305	33.420	.459
86-31740	8359.0	.64.400	.770	254.180	3.04	23.880	.286	38.300	.458
Mean	8002.8	69.15	0.868	263.15	3.30	22.25	0.278	38.37	0.479
Std. Dev.	583.6	3.41	0.082	13.04	0.190	2.94	0.031	3.53	0.029

Animal ID	Terminal Body Wt (G)	Adrenals		Testes	
		Weight (G)	% of Bdywt	Weight (G)	% of Bdywt
86-31726	8580.0	0.930	.011	10.090	.118
86-31727	7787.0	1.110	.014	10.570	.136
86-31728	7285.0	0.790	.011	4.970	.068
86-31740	8359.0	0.990	.012	11.910	.142
Mean	8002.8	0.96	0.012	9.39	0.116
Std. Dev.	583.6	0.13	<.01	3.04	0.034

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN
 MALE DOGS REPORT NO. 86R-121
 PROTOCOL NO. 86P-78
 Organ Weights Individual Animal Summary Report
 Group 2 140 ppm

Table 8

Animal ID	Terminal Body Wt (G)	Heart		Liver		Spleen		Kidney	
		Weight (G)	% of Bdywt						
86-311730	8254.0	67.460	.817	279.260	3.38	21.450	.260	41.780	.506
86-311736	9294.0	73.760	.794	258.300	2.78	25.930	.279	44.250	.476
86-311741	8550.0	64.130	.750	238.820	2.79	19.210	.225	36.880	.431
86-311742	8082.0	69.280	.857	248.340	3.07	20.290	.251	37.260	.461
Mean	8545.0	68.66	0.805	256.18	3.01	21.72	0.254	40.04	0.469
Std. Dev.	535.4	4.01	0.045	17.32	0.285	2.95	0.023	3.58	0.031

Animal ID	Terminal Body Wt (G)	Adrenals		Testes	
		Weight (G)	% of Bdywt	Weight (G)	% of Bdywt
86-311730	8254.0	0.890	.011	8.970	.109
86-311736	9294.0	0.960	.010	11.510	.124
86-311741	8550.0	0.790	.009	11.210	.131
86-311742	8082.0	0.900	.011	5.670	.070
Mean	8545.0	0.89	0.010	9.34	0.108
Std. Dev.	535.4	0.07	<.01	2.70	0.027

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN
MALE DOGS

PROTOCOL NO. 86P-78 REPORT NO. 86R-121

Organ Weights Individual Animal Summary Report
Group 3
700 ppm

Table 8

Animal ID	Terminal Body Wt (G)	Heart			Liver			Spleen			Kidney		
		Weight (G)	% of Bdywt	% of (G)	Weight (G)	% of Bdywt	% of (G)	Weight (G)	% of Bdywt	% of (G)	Weight (G)	% of Bdywt	% of (G)
86-31709	8211.0	.845	3.19	3.360	3.89	41.570	.506	44.040	.536				
86-31729	7734.0	.782	3.05	.970	3.96	31.190	.403	33.960	.439				
86-31733	8435.0	.770	.863	2.96	.520	3.52	25.290	.300	50.250	.596			
86-31734	9038.0	.850	3.47	.820	3.85	34.100	.377	49.100	.543				
Mean	8354.5	69.86	0.835	3117.42	33.80	33.04	0.397	44.34	0.529				
Std. Dev.	541.3	6.96	0.036	22.33	0.196	6.77	0.085	7.43	0.065				

Animal ID	Adrenals			Testes		
	Terminal Body Wt (G)	Weight (G)	% of Bdywt	(G)	Weight (G)	% of Bdywt
86-31709	8211.0	1.020	.012	9.980	.122	
86-31729	7734.0	1.540	.020	3.450	.045	
86-31733	8435.0	0.980	.012	10.240	.121	
86-31734	9038.0	0.980	.011	7.310	.081	
Mean	8354.5	1.13	0.014	7.75	0.092	
Std. Dev.	541.3	0.27	<.01	3.15	0.037	

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN
MALE DOGS
PROTOCOL NO. 86P-78 REPORT NO. 86R-121

Organ Weights Individual Animal Summary Report
Table 8 Group 6* 1400 ppm

Animal ID	Terminal Body Wt (G)	Heart		Liver		Spleen		Kidney	
		Weight (G)	% of Bdywt						
86-31705	9012.0	73.942	.820	399.830	4.44	43.778	.486	45.934	.510
86-31732	8360.0	68.332	.817	333.240	3.99	35.213	.421	37.603	.450
86-31735	8524.0	72.936	.856	374.570	4.39	36.132	.424	50.881	.597
86-31738	8234.0	68.697	.834	339.170	4.12	40.770	.495	37.236	.452
Mean	8532.5	70.98	.831	361.70	4.21	38.97	.457	42.91	.519
Std. Dev.	341.0	2.88	.02	31.29	0.319	4.02	.039	6.66	.074

Animal ID	Terminal Body Wt (G)	Adrenals		Testes	
		Weight (G)	% of Bdywt	Weight (G)	% of Bdywt
86-31705	9012.0	1.085	.012	5.016	.056
86-31732	8360.0	0.960	.011	6.349	.076
86-31735	8524.0	1.145	.013	9.698	.114
86-31738	8234.0	1.049	.013	7.057	.086
Mean	8532.5	1.06	.012	7.030	.083
Std. Dev.	341.0	0.08	<.01	1.97	.024

* - SURVIVORS OF GROUPS 4 AND 5 WERE COMBINED ON DAY 10 TO FORM GROUP 6

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN MALE DOGS
 PROTOCOL 86P-78

REPORT NO. 86R-121

Table 9

Summary of Gross Pathology

RH-5849	Dose (ppm)	Males					
		Group: 1 0	2 140	3 700	4 3500	5 7000	6 1400
Number of Animals Per Group		4	4	4	2	1	5
Number with No Gross Observations		2	4	3	0	0	4
<u>Observation</u>							
Brain		-	-	-	1	-	-
prominent vasculature		-	-	-	1	-	-
Bronchi		-	-	-	-	1	-
contains food		-	-	-	-	1	-
Duodenum		-	-	-	-	-	1
ascarids		-	-	-	-	-	1
Heart		-	-	-	-	1	1
red foci/areas		-	-	-	-	1	1
Ileum		-	-	-	-	-	1
ascarids		-	-	-	-	-	1
Jejunum		-	-	-	-	-	1
ascarids		-	-	-	-	-	1

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN MALE DOGS
 PROTOCOL 86P-78

REPORT NO. 86R-121

Table 9

Summary of Gross Pathology

	Males					
Group:	1	2	3	4	5	6
RH-5849 Dose (ppm):	0	140	700	3500	7000	1400
Number of Animals Per Group	4	4	4	2	1	5
Number with No Gross Observations	2	4	3	0	0	4
<u>Observation</u>						
Kidney						
reddened (corticomedullary junction)	-	-	-	-	-	1
Liver						
tan areas	-	-	-	1	-	-
Lung						
red foci/area	1	-	-	1	1	1
Spinal Cord						
CSF coagulated	-	-	-	1	-	-
Spleen						
purple/gray/red areas	1	-	-	1	-	1
Stomach						
contains large amount of food	-	-	-	1	-	-
discoloration (focal/multifocal)	-	-	-	-	-	1

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN MALE DOGS
 PROTOCOL 86P-78

REPORT NO. 186R-121

Table 9

DRAFT -
 Summary Gross Pathology

	Males					
Group:	1	2	3	4	5	6
RH-5849 Dose (ppm) :	0	140	700	3500	7000	1400
Number of Animals Per Group	4	4	4	2	1	5
Number with No Gross Observations	2	4	3	0	0	4
<u>Observation</u>						
Testis(es)						
small	1	-	1	-	-	-
Trachea						
froth and food	-	-	-	-	1	-
Thymus						
dark red	-	-	-	-	1	-
discoloration (focal/multifocal)	-	-	-	-	1	-
Whole Body						
thin	-	-	-	-	-	1
saliva around mouth	-	-	-	2	1	-
vomitus	-	-	-	-	1	-
rigid	-	-	-	-	1	-
dehydrated	-	-	-	-	-	1

The following tissue, collected according to the protocol, had no gross observations: adrenals

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN MALE DOGS
 PROTOCOL 86P-78

REPORT NO. 86R-121

Table 9

Individual Animal Gross Pathology

<u>Group</u>	<u>Dose (ppm)</u>	<u>Animal Number</u>	<u>Sex</u>	<u>Fate</u>	<u>Time Days</u>	<u>Observation</u>
1	0	86-31726	M	Term.	19	No gross observations
1	0	86-31727	M	Term.	19	No gross observations
1	0	86-31728	M	Term.	19	Testis: small, bilateral
1	0	86-31740	M	Term.	19	Lung: 1mm dark red depressed focus on dorsal surface, right diaphragmatic lobe Spleen: 0.7cm diameter purple-gray raised area along edge

<u>Group</u>	<u>Dose (ppm)</u>	<u>Animal Number</u>	<u>Sex</u>	<u>Fate</u>	<u>Time Days</u>	<u>Observation</u>
2	140	86-31730	M	Term.	19	No gross observations
2	140	86-31736	M	Term.	19	No gross observations
2	140	86-31741	M	Term.	19	No gross observations
2	140	86-31742	M	Term.	19	No gross observations

<u>Group</u>	<u>Dose (ppm)</u>	<u>Animal Number</u>	<u>Sex</u>	<u>Fate</u>	<u>Time Days</u>	<u>Observation</u>
3	700	86-31709	M	Term.	19	No gross observations
3	700	86-31729	M	Term.	19	Testis: small, bilateral
3	700	86-31733	M	Term.	19	No gross observations
3	700	86-31734	M	Term.	19	No gross observations

Term. - terminal

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN MALE DOGS
 PROTOCOL 86P-78

REPORT NO. 86R-121

Table 9

Individual Animal Gross Pathology

DRAFT REPORT

<u>Group</u>	<u>Dose (ppm)</u>	<u>Animal Number</u>	<u>Sex</u>	<u>Fate</u>	<u>Time Days</u>	<u>Observation</u>
4	3500	86-31714	M	E.D.	1	Whole Body: saliva around mouth Lung: red area 6mm diameter right diaphragmatic lobe Stomach: contains large amount of food Spinal Cord: cervical region, CSF coagulated Brain: prominent vasculature, cerebral hemispheres
4	3500	86-31737	M	E.D.	1	Whole Body: saliva around mouth Spleen: red area at periphery Liver: two tan areas, 6mm, left lateral at periphery and caudate lobe at hilus

<u>Group</u>	<u>Dose (ppm)</u>	<u>Animal Number</u>	<u>Sex</u>	<u>Fate</u>	<u>Time Days</u>	<u>Observation</u>
5	7000	86-31731	M	E.D.	1	Whole Body: rigid, saliva and vomitus around mouth Thymus: dark red with multiple red foci Lung: multiple dark red foci and areas left lobes Bronchi: left, contains food Trachea: contains froth and food Heart: endocardial surface, right and left ventricles, multiple red foci and areas

E.D. - Early Death
 Term. - Terminal

RH-5849: TWO-WEEK DIETARY RANGE-FINDING STUDY IN MALE DOGS
 PROTOCOL 86P-78 REPORT NO. 86R-121

Table 9

Individual Animal Gross Pathology

<u>Group</u>	<u>Dose (ppm)</u>	<u>Animal Number</u>	<u>Sex</u>	<u>Fate</u>	<u>Time Days</u>	<u>Observation</u>
6	1400	86-31705*	M	Term.	27	No gross observations
6	1400	86-31732*	M	Term.	27	No gross obsevations
6	1400	86-31735+	M	Term.	27	No gross observations
6	1400	86-31738+	M	Term.	27	No gross obsevations
6	1400	86-31743+	M	E.D.	17	Spleen: purple raised areas along the periphery Heart: multiple red areas left ventricle, endocardial surface; red area at base left AV valve Lung: multiple red, firm, depressed areas right intermediate, right apical, left diaphragmatic and left intermediate Stomach: multiple pinpoint red foci on mucosal surface Kidney: reddened cortico-medullary junction Jejunum: ascarids Ileum: ascarids Duodenum: ascarids Whole Body: thin, dehydrated

E.D. - Early Death

Term. - Terminal

*Dose of 3500 ppm was administered for the first day of the study.

Animals were then taken off compound for 10 days and dosed at the level of 1400 ppm for the remainder of the study.

+Dose of 7000 ppm was administered for the first day of the study.

Animals were then taken off compound for 10 days and dosed at the level of 1400 ppm for the remainder of the study.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

Ronald L. Keener, Ph.D.
Regulatory Affairs Director, Product Integrity Department
Rohm and Haas Company
Independence Mall West
Philadelphia, Pennsylvania 19105

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

MAR 06 1995

EPA acknowledges the receipt of information submitted by your organization under Section 8(e) of the Toxic Substances Control Act (TSCA). For your reference, copies of the first page(s) of your submission(s) are enclosed and display the TSCA §8(e) Document Control Number (e.g., 8EHQ-00-0000) assigned by EPA to your submission(s). Please cite the assigned 8(e) number when submitting follow-up or supplemental information and refer to the reverse side of this page for "EPA Information Requests".

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Attn: TSCA Section 8(e) Coordinator
Office of Pollution Prevention and Toxics
U.S. Environmental Protection Agency
Washington, D.C. 20460-0001

EPA looks forward to continued cooperation with your organization in its ongoing efforts to evaluate and manage potential risks posed by chemicals to health and the environment.

Sincerely,

Terry R. O'Bryan
Terry R. O'Bryan
Risk Analysis Branch

Enclosure

12093A



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Triage of 8(e) Submissions

Date sent to triage: MAY 05 1995

NON-CAP

CAP

Submission number: 12093A

TSCA Inventory:

Y

N

D

Study type (circle appropriate):

Group 1 - Dick Clements (1 copy total)

ECO AQUATO

Group 2 - Ernie Falke (1 copy total)

ATOX SBTOX SEN

W/NEUR

Group 3 - Elizabeth Margosches (1 copy each)

STOX CTOX EPI RTOX GTOX

STOX/ONCO CTOX/ONCO IMMUNO CYTO NEUR

Other (FATE, EXPO, MET, etc.): _____

Notes:

THIS IS THE ORIGINAL 8(e) SUBMISSION; PLEASE REFILE AFTER TRIAGE DATABASE ENTRY

For Contractor Use Only

entire document: 0 1 2 pages 1

pages 1-5

Notes:

Contractor reviewer: LPS

Date: 12/22/94

CFCATS DATA:

Submission # 81110-0992 - 12003

SEQ. A.

TYPE: INT SUPP FLWP

SUBMITTER NAME: Rohm and Haas

COMPANY: Company

SUB DATE: 08/12/92 OTS DATE: 09/08/92

CSRAD DATE: 08/12/94

CAS#

112225-87-3

Benzic acid, 2-benzoyl-1-(1,1-diethyl ethoxy)hydrazide

CFCATS/STRIAGE TRACKING DBASE ENTRY FORM

VOLUNTARY ACTIONS:

- (44) NO ACTION REPORTED
 0501 NO INFO REQUESTED
 0502 INFO REQUESTED (TECH)
 0503 INFO REQUESTED (VOL ACTIONS)
 0504 INFO REQUESTED (REPORTING RATIONALE)
 0405 PROCESS/HANDLING CHANGES
 0406 APP/USE DISCONTINUED
 0407 PRODUCTION DISCONTINUED
 0408 CONFIDENTIAL

INFORMATION REQUESTED: FLWP DATE:

- 0401 STUDIES PLANNED/INDI R/WAY
 0403 NOTIFICATION OF WORK ROUTINES
 0404 LABEL/MSDS CHANGES
 0639 REFER TO CHEMICAL SCREENING
 0678 CAP NOTICE

CHEMICAL NAME:

CAS#

INFORMATION TYPE:

P F C

INFORMATION TYPE:

P F C

INFORMATION TYPE:

P F C

0201	ONCO (HUMAN)	01 02 04	0216	EPICLIN	01 02 04	0241	IMMUNO (ANIMAL)	01 02 04
0202	ONCO (ANIMAL)	01 02 04	0217	HUMAN EXPOS (PROD CONTAM)	01 02 04	0242	IMMUNO (HUMAN)	01 02 04
0203	CELL TRANS (IN VITRO)	01 02 04	0218	HUMAN EXPOS (ACCIDENTAL)	01 02 04	0243	CHEMPHYS PROP	01 02 04
0204	MUTA (IN VITRO)	01 02 04	0219	HUMAN EXPOS (MONITORING)	01 02 04	0244	CLASTO (IN VITRO)	01 02 04
0205	MUTA (IN VIVO)	01 02 04	0220	ECOAQUA TOX	01 02 04	0245	CLASTO (ANIMAL)	01 02 04
0206	REPRO/TERATO (HUMAN)	01 02 04	0221	ENV OCCCRELFATE	01 02 04	0246	CLASTO (HUMAN)	01 02 04
0207	REPRO/TERATO (ANIMAL)	01 02 04	0222	EMER INCI OF ENV CONTAM	01 02 04	0247	DNA DAMAGE/REPAIR	01 02 04
0208	NEURO (HUMAN)	01 02 04	0223	RESPONSE REQUEST DELAY	01 02 04	0248	PROD/USE/PROC	01 02 04
0209	NEURO (ANIMAL)	01 02 04	0224	PRODCOMP/CHM ID	01 02 04	0251	MSDS	01 02 04
0210	ACUTE TOX. (HUMAN)	01 02 04	0225	REPORTING RATIONALE	01 02 04	0259	OTHER	01 02 04
0211	CHR. TOX. (HUMAN)	01 02 04	0226	CONFIDENTIAL	01 02 04			
0212	ACUTE TOX. (ANIMAL)	01 02 04	0227	ALLERG (HUMAN)	01 02 04			
0213	SUB ACUTE TOX (ANIMAL)	01 02 04	0228	ALLERG (ANIMAL)	01 02 04			
0214	SUB CHRONIC TOX (ANIMAL)	01 02 04	0239	METAB/PHARMACO (ANIMAL)	01 02 04			
0215	CHRONIC TOX (ANIMAL)	01 02 04	0240	METAB/PHARMACO (HUMAN)	01 02 04			

TRIAGE DATA:

NON-CBI INVENTORY

ONGOING REVIEW

SPECIES

TOXICOLOGICAL CONCERN:

USE:

PRODUCTION

CAS SR

YES

YES (DROP/REFER)

DOC

LOW

DETERMINE

NO

NO (CONTINUE)

MED

HIGH

COMMENTS:

-CPSS- 1205951500

0 0 0 0 0 0 0 0 0 0
> <ID NUMBER>
8(e)-12093A

> <TOX CONCERN>
H

> <COMMENT>
SUBACUTE ORAL TOXICITY IN MALE BEAGLE DOGS IS HIGH CONCERN WITH AN NOEL OF 140 PPM (4.43 MG/KG). 8 ANIMALS (4/GROUP) WERE GIVEN 140 AND 700 PPM OF ACTIVE INGREDIENT FOR 2 WEEKS. 8 OTHER ANIMALS WERE GIVEN 3500 AND 7000 PPM FOR 1 DAY DUE TO MORTALITIES 2/4 AT 3500 MG/KG AND 1/4 AT 7000 MG/KG. THE SURVIVORS WERE GIVEN A 10 DAY RECOVERY PERIOD AND THEN GIVEN 1400 PPM OF ACTIVE INGREDIENTS FOR 2 WEEKS. CLINICAL SIGNS NOTED AT 3500 PPM AND HIGHER INCLUDED EXCESSIVE SALVATION, TREMORS, ATAXIA, EMESIS, DIARRHEA, PROSTRATION AND CONVULSIONS. CLINICAL SIGNS AT 1400 MG/KG INCLUDED ATAXIA, LETHARGY, EMESIS, SALIVATION, DECREASED FOOD CONSUMPTION, EMACIATION, PROSTRATION, RIGIDLY EXTENDED LIMBS, DIARRHEA, AND TREMORS. NO TREATMENT-RELATED CHANGES WERE NOTED AT 140 OR 700 PPM DOSE LEVELS. NECROPSY OF DECEDENTS REVEALED PROMINENT VASCULATURE OF BRAIN AND COAGULATED CSF IN SPINAL CORD (IN 1) AND INCREASED LIVER AND SPLEEN AND DECREASED TESTICULAR WEIGHTS WERE NOTED IN ANIMALS GIVEN 700 AND 1400 PPM.

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